



# Compartment Review Presentation

## Pigeon River Country Forest Management Unit

Compartment 53022

Entry Year 2024

Acreage: 1,374

County Cheboygan

Management Area: Pigeon River Country

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**Stand Examiner:** Greg Rekowski

### Legal Description:

T33N R01E - Sections 1, 2, and 3

T33N R02E - Section 6

T34N R02E - Section 31

### Identified Planning Goals:

Maintain current species mix and apply appropriate management techniques to mature stands of timber that are in need of treatment.

### Soil and topography:

Flat to gently rolling terrain throughout most of the Compartment with the exception of some steeper slopes in hardwood stands in Sections 2 and 3. Upland soils are comprised of a variety of sands and sandy loams, with Cheboygan loamy sand, Emmet sandy loam, and Ingalls loamy sand being the most common respectively. Section 1 is mostly poorly-drained lowlands and comprised of a mix of peats, mucks, and sandy soils.

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

Mostly a solid block of State ownership although there is private property in the northern parts of Sections 1 and 2, along with a small private inholding at the southeast corner of Section 2. Several small residences constitute the private inholdings in Section 2 while the private property in Section 1 is owned by a single landowner.

### Unique Natural Features:

Wood turtles are known to occur in this Compartment.

### Archeological, Historical, and Cultural Features:

A previously identified area of archeological interest has been identified in this Compartment.

### Special Management Designations or Considerations:

The Black River along with two tributaries in this Compartment have been identified as cold water streams.

### Watershed and Fisheries Considerations:

The Black River forms the eastern boundary of this Compartment. Several other small streams are present throughout the Compartment.

### Wildlife Habitat Considerations:

A Wildlife Biologist will be available for comment at the Compartment Review.

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

Surface sediments consist of coarse-textured glacial till. The glacial drift thickness varies between 50 and 400 feet. Beneath the glacial drift is the Devonian Traverse Group, quarried for cement products and stone elsewhere in the State. Limestone quarries are located nine miles to the northwest. A gravel pit is possibly located in Section 1 and potential is considered good in the Compartment. This area was previously leased for oil and gas development. The Antrim Shale is not present and the Niagaran trend lies to the south and east. There could be potential for the Collingwood/Utica Shale in this Compartment.

### Vehicle Access:

Vehicle access is largely limited to Cheboygan County roads which travel mainly along the perimeter of the Compartment. State forest roads 21, 22, and 23 are present in Section 3. All remaining roads in the interior of the Compartment have been closed to vehicle access, with most of these closures still intact.

### Survey Needs:

The small private inholding in the SESE of Section 2 will require a survey as there are no corners along the west side of the parcel.

### Recreational Facilities and Opportunities:

The High Country Pathway passes through Sections 2 and 3.

**Fire Protection:**

Access is generally good in case of any fire suppression needs, although this Compartment is at low risk for any significant wildfire potential. Most road systems are closed with berms.

**Additional Compartment Information:**

Non-native invasive honeysuckle has become well established along the northern tier of most of the Compartment. Non-native invasive buckthorn was also found in several stands, although at a much lower amount than the honeysuckle.

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

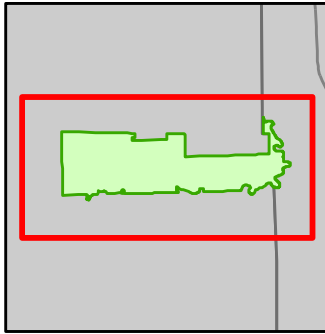
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

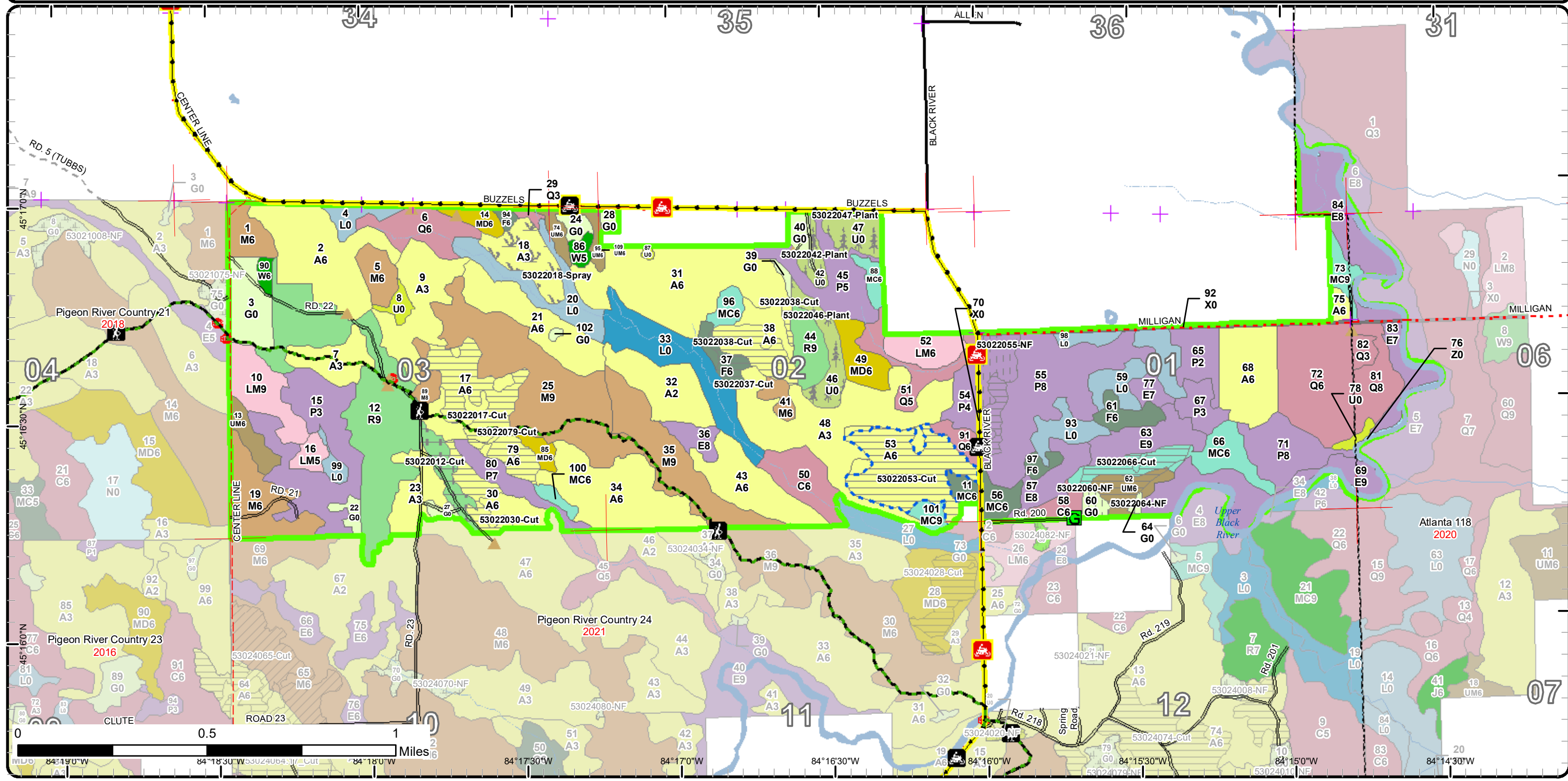
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 22  
 T33N, R01E, Sec: 01, 02, 03,  
 T33N, R02E, Sec: 06  
 T34N, R02E, Sec: 31  
 County: Cheboygan  
 Unit: Pigeon River Country  
 Mgmt Area: Pigeon River Country  
 YOE: 2024  
 Acres: 1374.1 GIS Calculated  
 Examiner: Greg Rekowski  
 Map Revised: 6/15/2022  
 Map Phase: Web-Post



- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Hiking Trails
- Bike Trails
- Ski Trails
- Motorcycle Trails (SOS License)
- MCCCT Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Multi-Use Trails
- ORV License
- Michigan Cross Country Cycle Trail (MCCCT)
- Berms
- Gate
- Sign
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Pesticide
- Planting (tree species)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland



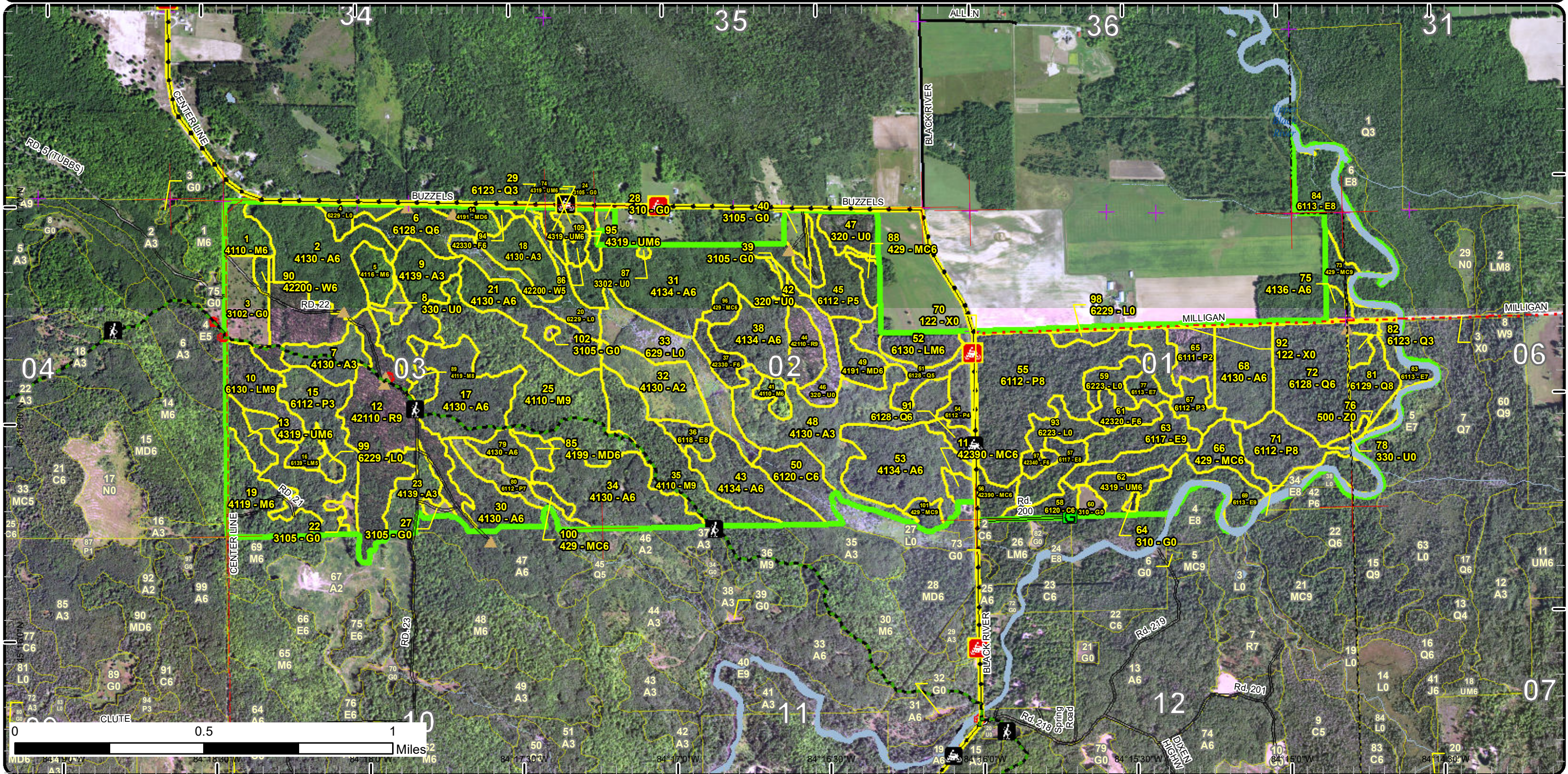
# Stand Boundary Map

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 T33N, R01E, Sec: 01, 02, 03,  
 T33N, R02E, Sec: 06  
 T34N, R02E, Sec: 31  
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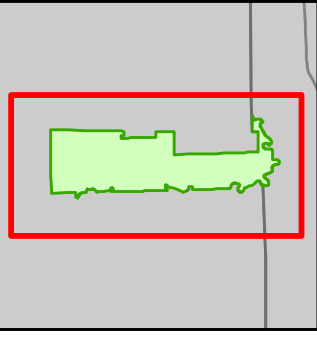
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- + Remonumented Section Corners
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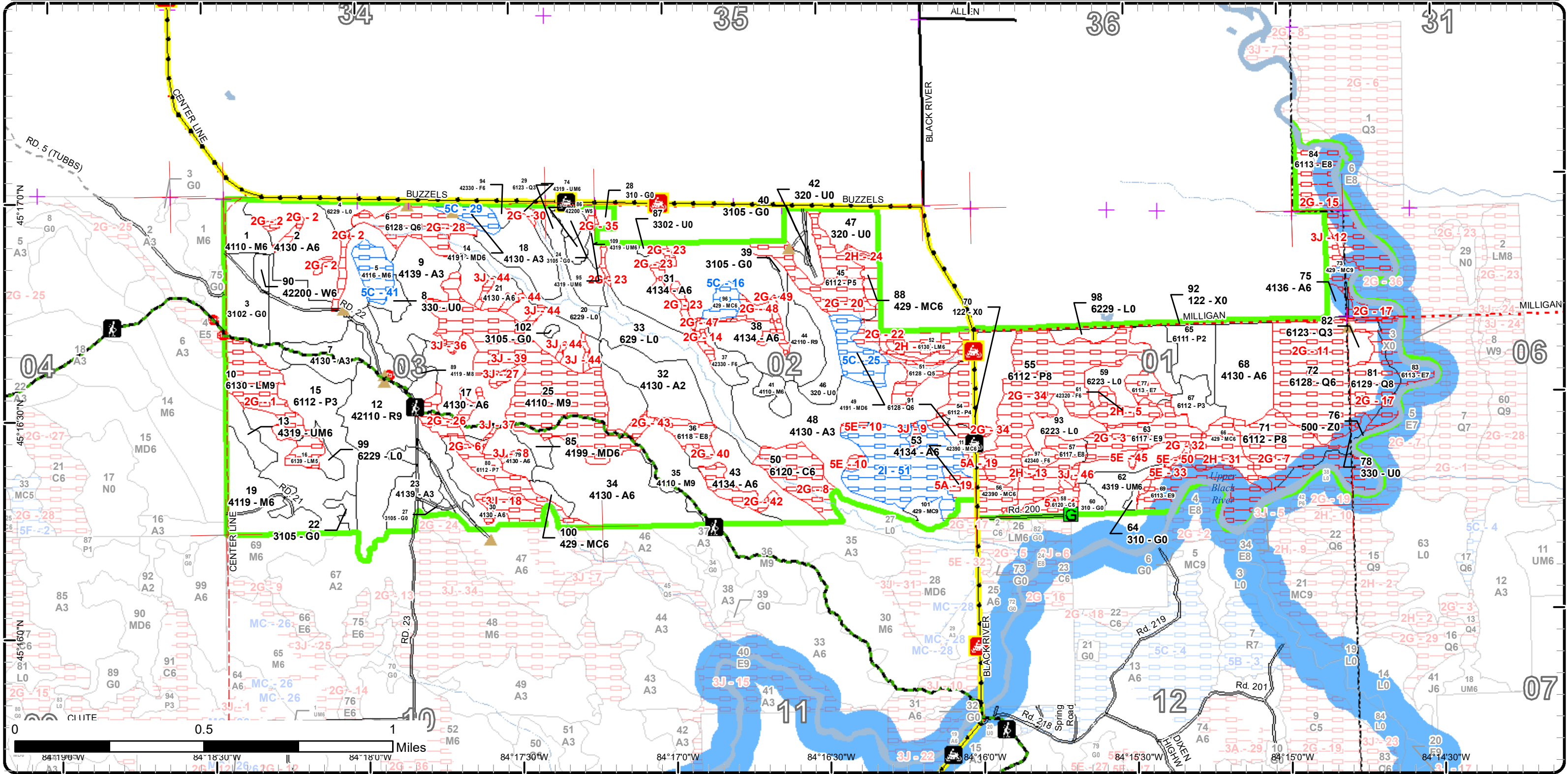


# Special Conservation Areas

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 T33N, R02E, Sec: 06  
 T34N, R02E, Sec: 31  
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- Compartment Boundary
- Available w/ Constraints
  - 2I: Survey needed
  - 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
  - 2G: Too wet (sensitive soils, does not include access issues)
  - 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
  - 3J: Water quality / BMPs (stream, river, or lake)
  - 5A: Not able to obtain desirable regeneration
  - 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	47	92	236	43	37	0	0	0	0	0	0	0	0	0	0	0	455
Cedar	0	0	0	0	0	0	0	0	0	0	0	15	6	0	0	0	0	0	21
Herbaceous Openland	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Low-Density Trees	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Aspen/Balsam Poplar	0	11	8	40	0	11	7	0	100	0	0	0	0	0	0	0	0	0	176
Lowland Conifers	0	0	0	0	0	5	4	0	27	14	0	0	0	0	0	0	0	37	87
Lowland Deciduous	0	0	0	0	0	0	0	11	22	25	11	25	0	0	0	0	0	0	94
Lowland Mixed Forest	0	0	0	0	0	0	0	17	11	0	4	0	0	0	0	0	0	0	31
Lowland Shrub	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81
Mixed Upland Deciduous	0	0	0	0	0	4	0	0	10	5	0	0	0	0	0	0	0	0	19
Northern Hardwood	0	0	0	0	0	0	0	0	0	79	59	0	0	0	0	0	0	0	138
Red Pine	0	0	0	0	0	0	0	85	0	0	0	0	0	0	0	0	0	0	85
Upland Conifers	0	0	0	0	3	0	4	5	40	0	0	0	0	0	0	0	0	0	51
Upland Mixed Forest	0	0	0	0	0	9	7	7	0	0	0	0	0	0	0	0	0	0	23
Upland Shrub	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Upland Spruce/Fir	0	0	0	0	0	2	7	0	3	7	0	0	0	0	0	0	0	0	19
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Water	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
White Pine	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	5
<b>Total</b>	<b>173</b>	<b>11</b>	<b>55</b>	<b>132</b>	<b>242</b>	<b>76</b>	<b>66</b>	<b>125</b>	<b>213</b>	<b>130</b>	<b>74</b>	<b>40</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>37</b>	<b>1377</b>



## Report 2 – Treatment Summary

### Acres of Harvest

Commercial Harvest - 85  
 Harvests with Site Condition - 34  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	85	0	0	0	0	0	0	0	0	85
Lowland Aspen/Balsam Poplar	6	0	0	0	0	0	0	0	0	6
Red Pine	0	0	0	0	0	8	0	0	0	8
Upland Conifers	8	0	0	0	0	0	0	0	0	8
Upland Mixed Forest	8	0	0	0	0	0	0	0	0	8
Upland Spruce/Fir	5	0	0	0	0	0	0	0	0	5
<b>Total</b>	<b>111</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>119</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	119	0	25	0	0	15	0	0	13	172
Next Step	0	0	0	0	0	0	192	0	0	192
<b>Total</b>	<b>119</b>	<b>0</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>192</b>	<b>0</b>	<b>13</b>	<b>364</b>



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Proposed Treatments:**

12	53022012-Cut	8.4	42110 - Planted Red Pine	Sawtimber Well	62	81-110	Harvest	Overstory Removal	4116 - Mixed N. Hardwood - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all red pine and aspen in the stand. Leave one clump of 3-4 red pine per acre. Leave any other merchantable species in the stand.  <u>Specs:</u> Protect existing hardwood regeneration as much as possible during sale operations. Require a roundwood harvest.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Fully-stocked stand dominated by hardwoods and/or aspen, with any additional mix of species being acceptable.</p> <p><u>Other Comment:</u> Prep this sale together with the adjacent aspen stands to the east.</p> <p><u>Site Condition</u>  Proposed Start Date: 10/1 /2023</p>											
17	53022017-Cut	22.3	4130 - Aspen	Poletimber Well	35	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut. If present, leave any incidental species such as white pine, red oak, basswood, and elm. Leave cherry over 5" DBH. Mark 1-2 larger diameter aspen or maple per acre as cut and leave trees to serve as drumming logs. Mark a few clumps of nicer sugar maple poletimber (3-5 trees) where they are present. Winter harvest only due to seasonally wet ground.  Numerous drainages and wet areas have been excluded from the treatment boundary (see site conditions layer). Expect these boundaries to change slightly during sale prep but they should be pretty close to the true on-the-ground location.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Fully-stocked stand of aspen with any additional mix of species being acceptable.</p> <p><u>Other Comment:</u> Add trails specs for the High Country Pathway.  Access to this stand will be difficult due to the numerous drainages. The High Country Pathway appears to fall on an old road so this could be used as a haul route, however crane mats will be needed to cross the wet areas. The M8 stand on the west side (#89) has some open areas that could be sufficient for a landing.</p> <p><u>Site Condition</u>  Proposed Start Date: 10/1 /2023</p>											
18	53022018-Spray	15.2	4130 - Aspen	Sapling Well	23	Unspecified	Pesticide	Hand Application	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Spray all invasive honeysuckle and buckthorn in the stand. A lot of it is centered around the old closed road but buckthorn has also spread throughout several additional areas of the stand.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Herbicide Use  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u>  Proposed Start Date: 10/1 /2023</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>30</b>	<b>53022030-Cut</b>	8.4	4130 - Aspen	Poletimber Well	48	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clearcut. Leave any incidental cedar or white pine. Protect hardwood saplings as much as possible. Roundwood harvest during the winter months only. A large area of drainages and vernal pools has been excluded from this stand (see site conditions layer). Expect this area to shift slightly when putting in treatment lines on the ground.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Fully-stocked aspen regen with any additional mix of species being acceptable.

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>37</b>	<b>53022037-Cut</b>	4.6	42330 - Upland Fir	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clearcut. Do not cut any incidental cedar or white pine. Mark 1-2 poor quality trees per acre as cut and leave trees for drumming logs.

Specs: Exclude areas of blowdown along the southeast side.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Fully-stocked stand with any mix of species being acceptable.

Other

Comment: A drainage and wet ground at the north/northwest parts of the stand have already been excluded (see site conditions layer) but expect this boundary to shift somewhat when the sale is prepped.

Winter cut only.

Site Condition

Proposed Start Date: 10/1 /2023

<b>38</b>	<b>53022038-Cut</b>	13.5	4134 - Aspen, Spruce/Fir	Poletimber Well	46	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut. Leave any incidental white and red pine. Mark 1-2 poor quality trees per acre to serve as cut and leave trees for drumming logs.

Specs: A large area of this stand has already been excluded due to wet ground with vernal pools and drainages, and can serve as retention. Expect the treatment boundary to the north to shift based on the extent of wet ground. Exclude any additional vernal pools that may be present in the stand.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Fully-stocked stand dominated by aspen with any additional mix of species being acceptable.

Other

Comment: Winter harvest only due to wet soils.

Access will be via the closed road to the north. Crane mats will likely be needed in the portion of the road that crosses the P type (stand 45) as there is very wet ground and there also appears to be a small seasonal stream/drainage that crosses the road.

Site Condition

Proposed Start Date: 10/1 /2023



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>42</b>	<b>53022042-Plant</b>	3.9	320 - Upland Shrub	Nonstocked	0	Unspecified	Planting	ERROR	42311 - Planted Spruce, Mixed Deciduous	Even-Aged	No
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Prescription Specs: Flat plant white spruce. Target 400-500 per acre. Plant additional deciduous species suitable for the site. Swamp white oak has been requested by WLD and should grow well here. See regen survey results in the MiFI stand comments. Spray all invasive honeysuckle in the stand during the same time period. Plant native shrubs adjacent to the closed road.

Next Step Treatments: Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: Fully-stocked stand of planted spruce with any mix of species being acceptable.

Other Comment: Leave the option open for chemical use to treat competing vegetation per the TMS.

Make the treatments in this stand, along with the treatments in stand 47 and 46, an Americorps project.

Site Condition

Proposed Start Date: 10/1 /2023

<b>46</b>	<b>53022046-Plant</b>	11.0	320 - Upland Shrub	Nonstocked	0	Unspecified	Planting	ERROR	42311 - Planted Spruce, Mixed Deciduous	Even-Aged	No
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Prescription Specs: Flat plant white spruce. Go around areas of existing regeneration, although these are few and far between, and are mostly a few patches of aspen and BAM at the southwest corner. Target 600 trees per acre. Plant additional deciduous species suitable for the site, including native shrubs. Swamp white oak has been requested by WLD and should grow well here. See regen survey results in MiFI stand comments. Spray all invasive honeysuckle in the stand during the same time period. Plant a few scattered native shrubs, such as hawthorn and serviceberry.

Next Step Treatments: Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: Fully-stocked stand of planted white spruce with any additional mix of species being acceptable.

Other Comment: Leave the option open for chemical use to treat competing vegetation per the TMS.

Make the treatments in this stand, along with the treatments in stand 42 and 47, an Americorps project.

Site Condition

Proposed Start Date: 10/1 /2023

<b>47</b>	<b>53022047-Plant</b>	9.8	320 - Upland Shrub	Nonstocked	0	Unspecified	Planting	ERROR	42311 - Planted Spruce, Mixed Deciduous	Even-Aged	No
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Prescription Specs: Flat plant white spruce. Target 400-500 per acre. Plant additional deciduous species suitable for the site, including native shrubs. Swamp white oak has been requested by WLD and should grow well here. Go around areas of existing regeneration which will reduce the amount treated by an acre or two. See regen survey results in the MiFI stand comments. Spray all invasive honeysuckle in the stand during the same time period.

Next Step Treatments: Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: Fully-stocked stand of spruce with any additional mix of species being acceptable.

Other Comment: Leave the option open for chemical use to treat competing vegetation per the TMS.

Make the treatments in this stand, along with the treatments in stand 42 and 46, an Americorps project.

Site Condition

Proposed Start Date: 10/1 /2023



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>53</b>	<b>53022053-Cut</b>	33.9	4134 - Aspen, Spruce/Fir	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut with retention. Do not cut incidental white pine, elm, cedar, or oak. Mark one clump per acre of 2-3 sawlog-sized trees as cut and leave trees for brush piles. Desired retention areas have already been excluded and are in the site conditions layer. The small drainage at the northeast side of the treatment has also been excluded, although expect this boundary to shift a little.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Fully-stocked stand of aspen with any additional mix of species being acceptable.

Other Comment: Access to this stand should be from the closed road to the north which terminates at the south end of stands 46 and 49. There is a small ORV trail which leads to this stand from the end of that closed road and will serve as a good route. The closed road may need crane mats where it passes through the P5 stand (#45) as there are some wet holes in that area.

Site Condition Survey Needed

Proposed Start Date: 10/1 /2023

<b>55</b>	<b>53022055-Cut</b>	5.9	6112 - Lowland Aspen	Sawtimber Medium	73	51-80	Harvest	Clearcut	6112 - Lowland Aspen	Even-Aged	No
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Prescription Clearcut. Leave any incidental cedar or white pine. Leave ash greater than 5" DBH. Mark 1-2 large diameter aspen per acre as cut and leave trees for drumming logs. Roundwood only harvest. Winter cut only due to the wet ground.

Follow the treatment line as closely as possible as this represents the extent of operable ground in this stand. A wetland pocket has been excluded along the west side of the treatment (see site conditions layer).

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Fully-stocked stand dominated by aspen, balsam poplar, fir, and spruce.

Other Comment: A culvert will be required to cross the ditch and access this stand. Recommended landing area is in the reference point layer. Group this treatment in a sale together with treatments in stands 62 and 66.

Site Condition

Proposed Start Date: 10/1 /2023

<b>55</b>	<b>53022055-NF</b>	8.6	6112 - Lowland Aspen	Sawtimber Medium	73	51-80	NonForestMgt	Brush Cutting	6229 - Mixed lowland shrub		No
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Prescription Shear alder, other lowland shrubs, and saplings. The treated area will be much smaller than the existing treatment boundary due to areas of very wet ground that will have to be excluded as well as pockets of mature aspen, spruce, and fir that is scattered throughout. Treat all invasive honeysuckle and buckthorn prior to shearing.

Next Step Monitoring, Herbicide Use

Treatments:

Acceptable Regen:

Other Comment: Winter treatment only for shearing. Treat invasives in the early summer prior to seed development.

Site Condition

Proposed Start Date: 10/1 /2023



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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60	53022060-NF	3.1	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland	No
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Prescription Maintain the non-forested condition of this stand either through burning, herbicide, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

62	53022062-Cut	7.6	4319 - Mixed Upland Forest	Poletimber Well	46	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
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Prescription Clearcut. Leave the area of pure spruce/fir along the east/northeast edge as retention to deter beaver activity and to lessen impacts to wood turtles (this area has already been excluded and is represented as retention in the site conditions layer). Leave any incidental white pine, red pine, or oak. Mark to leave scattered clumps of fir/spruce, no more than 1 clump per acre.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

64	53022064-NF	0.9	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland	No
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Prescription Maintain the non-forested condition of this stand either through burning, herbicide, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>66 53022066-Cut</b>	7.9	429 - Mixed Upland Conifers	Poletimber Well	73	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut. Leave incidental white pine and cedar. Mark to leave scattered clumps of fir and spruce for a seed source. Mark 1-2 large diameter aspen or red maple per acre as cut and leave trees for drumming logs. Mark to leave large diameter aspen with significant amounts of rot and cavities for wildlife species. Winter cut only to alleviate concerns with wood turtle habitat in the adjacent Black River floodplain.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Fully-stocked stand with any mix of species being acceptable.</p> <p><u>Other Comment:</u> Interior retention will be placed around the area of blowdown which has a wet drainage going to the north into the E stand (#63). Retention has also been excluded along the far east edge of the stand adjacent to the Black River floodplain. The far west end of the stand has another drainage which flows north into stand 57, this area has also been excluded from the treatment boundary.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
<b>79 53022079-Cut</b>	6.7	4130 - Aspen	Poletimber Well	48	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut. Leave any incidental white pine or cedar. Mark 1-2 large diameter aspen per acre as cut and leave trees to serve as drumming logs. Two wet drainages pass southwest through this stand and have already been excluded from the treatment boundary (see site conditions layer).</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Fully-stocked stand of aspen with any additional mix of species acceptable.</p> <p><u>Other Comment:</u> The High Country Pathway borders the north edge of the stand so add appropriate trail specs. Cut with adjacent stand 17. Access will be difficult, see comments for the treatment in stand 17.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

**Total Treatment** 171.7  
**Acres Proposed:**

**Availability for Management**

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions							
Acres	Available	With Condition	Not Available	2I	5C	2G	2H	3J	5A	5E	
454	374	34	46	Aspen	34		29		15		2
21	0	0	21	Cedar			15			6	
35	35	0	0	Herbaceous Openland							
6	6	0	0	Low-Density Trees							
176	73	0	103	Lowland Aspen/Balsam Poplar			103				
87	3	0	84	Lowland Conifers			84				
94	0	0	94	Lowland Deciduous			94				
32	0	0	32	Lowland Mixed Forest			27	5			
82	82	0	0	Lowland Shrub							
18	3	15	0	Mixed Upland Deciduous		15					
138	69	8	61	Northern Hardwood		8	2		59		
85	85	0	0	Red Pine							
51	14	4	33	Upland Conifers		4	1	15	6	10	1
23	21	0	2	Upland Mixed Forest			1				1
25	25	0	0	Upland Shrub							
18	6	0	12	Upland Spruce/Fir			2	10			
9	9	0	0	Urban							
16	16	0	0	Water							
5	5	0	0	White Pine							
1,374	827	61	487	Total Forested Acres	34	27	357	30	80	15	4
	60%	4%	35%	Relative Percent							

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 22

Greg Rekowski : Examiner

Year of Entry: 2024

2	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This site condition covers a series of drainages/seeps in stand 2. It is not exhaustive and there are likely more wet areas in the stand. The long north-south drainage towards the east of the stand is likely a seasonal stream as it is very visible from imagery.							
3	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>5A: Not able to obtain desirable regeneration</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Not an overly wet stand and likely operable in most places, but we are unable to successfully regenerate cedar.							
5	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	44	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Pigeon River Country Mgt. Unit

Compartment: 22

Greg Rekowski : Examiner

Year of Entry: 2024

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is the approximate location of a small drainage that goes to the north. Expect this boundary to shift somewhat after doing sale prep work.							
10	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Recommended retention areas for the harvest of stand 53. These areas capture some mature hardwoods along with fir mixed in.							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	37	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Directly adjacent to the Black River. No management.							
13	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



**Report 4 – Site Conditions**

Pigeon River Country Mgt. Unit

Compartment: 22

Greg Rekowski : Examiner

Year of Entry: 2024

14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This area of stand 37 becomes very wet.							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This site condition covers several drainages which flow to the east and northeast, dumping into the adjacent P7 stand (#80). There are also some large areas of pit and mound topography which hold vernal pools. There may be some drier ground along the south/southeast edge that will be available to harvest when stand 47 to the south in Comp 24 is cut.							
19	Unavailable	5A: Not able to obtain desirable regeneration	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This site condition covers stands 11 and 56, both of which are dominated by cedar. Other than some wet areas in the interior of stand 56, much of this ground is operable, however at current browse levels regeneration of cedar is impossible.							

**Report 4 – Site Conditions**

Pigeon River Country Mgt. Unit

Compartment: 22

Greg Rekowski : Examiner

Year of Entry: 2024

20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	45	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This site condition covers the various seeps and drainages in stand 31. There are likely more of these features in the stand. Locations may not be an exact match to what is on the ground but should be close.							
24	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Mostly upland but no way to get to this stand.							

## Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 22

Greg Rekowski : Examiner

Year of Entry: 2024

25	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Browse is a concern here based on regen survey results in adjacent stand 46 where even the fir is being browsed. Hold until there is evidence of better regen success in the area.							
26	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	7	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Drainage systems from the north, creating a larger drainage at the south end of this site condition which flows southeast into adjacent stand 80. Boundaries of the north drainage fingers are not exact but should be pretty close to the right location. Where the easternmost drainage crosses the High Country Pathway there is a small wooden structure that allows water to flow in a channel across the trail.							
27	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wet ground with pit and mound topography. This area looks to be the origin point for several drainages that flow north into the adjacent hardwood stand (#25).							
28	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	15	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> A stream flows west to east through the middle of the stand. A few small areas of drier ground along the edges but the majority of the stand is wet.							
29	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 22

Greg Rekowski : Examiner

Year of Entry: 2024

30	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Very wet, a stream flows through this stand.							
31	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This part of stand 66 is cut off due to a wet drainage. Wet ground is scattered throughout this portion of stand 66 as well which would make harvesting questionable anyways.							
32	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wet drainage in a shallow ravine. Water flows from the north in stand 63 through this drainage and into stand 69.							
33	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
34	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	46	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
35	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wet drainage that continues south onto private land and rejoins state land in stand 31, eventually draining into the L type further south (stand 33).							

**Report 4 – Site Conditions**

Pigeon River Country Mgt. Unit

Compartment: 22

Greg Rekowski : Examiner

Year of Entry: 2024

36	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wet ground with pit and mound topography. This area looks to be the origin point for a drainage that flows north into the adjacent hardwood stand (#25).							
37	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Drainage in a ravine. Small amount of flowing water in the spring.							
38	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small wet drainage flowing into the adjacent P7 stand to the west. This may not be the exact on-the-ground location but should be pretty close.							
39	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	59	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Numerous drainages and small seasonal streams in ravines flow north/northeast out of this stand. A large area of pit and mound topography with vernal pools is present in the southeast part of the stand. There are a few pockets of drier ground on ridges in between the drainages that would be available for harvest but is only a minor amount of the overall stand. Leave this stand unmanaged.							
40	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
41	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Pigeon River Country Mgt. Unit

Compartment: 22

Greg Rekowski : Examiner

Year of Entry: 2024

42	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                  Extensive area of wet ground. Drainages and a few vernal pools. Significant rutting damage from previous harvest is still evident in many places. Red osier dogwood at the ground level in some areas. This is the approximate location of the wet areas, further ground truthing will improve the accuracy of this area.</p>							
43	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                  Wet drainage.</p>							
44	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                  This site condition covers the numerous wet drainages that pass through this stand. With care, a few of these could be crossed during winter conditions to access the different parts of the stand. However, the furthest drainage to the east is more similar to a seasonal stream and has a defined channel in areas.</p>							
45	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                  Area of blowdown with a wet drainage going to the north/northeast.</p>							
46	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                  A small drainage in this area goes north into stand 57.</p>							
47	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                  Wet drainage system in a shallow ravine.</p>							

**Report 4 – Site Conditions**

**Pigeon River Country Mgt. Unit**

**Compartment: 22**

**Greg Rekowski : Examiner**

**Year of Entry: 2024**

48	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Pit and mound topography, a few scattered small vernal pools. Expect this boundary to change somewhat when the treatment boundary lines for stand 38 are painted in.</p>							
49	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Wet drainage with vernal pools.</p>							
50	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Lowland transitional ground directly adjacent to the Black River floodplain.</p>							
51	<b>Available</b>	<b>2I: Survey needed</b>	34	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Survey needed along the small private inholding at the southeast corner of the treatment.</p>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



## Report 5 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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**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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



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

<b>1</b>	4110 - Sugar Maple Association	Poletimber Well	8.8	88	81-110	N/A	Moderate quality hardwood stand. Stocking tends to vary, some areas are high enough to justify a thinning while others are low enough where a treatment is not needed. White ash used to be a moderate component of the overstory, perhaps around 10%, but it is all dead from EAB with most having fallen over in recent years. A few XL-sized sugar maple are present but rare overall. The far southeast corner of the stand appears to be on seasonally wet ground and is where most of the aspen is located. Average ba/acre from 7 plots = 100 square feet.																																																							
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<b>2</b>	4130 - Aspen	Poletimber Well	38.6	34	81-110	N/A	Clearcut in 1988 in the sale Buzzells Road Aspen (#53-017-84, Hyde's Forest Products). Developing stand of aspen with a diverse mix of other species, primarily hardwoods, in the understory. The hardwood component tends to be more abundant in the southwest half of the stand, closer to the M6 stand (#1) and the R9 stand (#12). The northeast half of the stand slopes down to the northeast and is where most of the fir component is located. Aspen diameters tend to vary with several areas that are just reaching merchantability. A small clump of mature red pine is present in the southeast area of the stand. There is also a small clump of mature white pine in the northeast part of the stand. The small finger that curves to the southeast has primarily fir and hardwoods in it, and could potentially be mapped out as a separate stand. Trace of red oak, white spruce, and ironwood poletimber in the overstory. Average ba/acre from 13 plots = 103 square feet. A wet drainage that may also be a seasonal stream is present in the eastern part of the stand, flowing north into the adjacent lowland type. This drainage is in somewhat of a small ravine and easily seen on leaf-off imagery (98DOQ). There are a few additional drainages throughout that were not excluded from the original harvest, old rutting damage is still evident in places where equipment crossed the drainages. This stand needs at least another 10 years of growth before considering a treatment. Use retention to protect hardwood areas and exclude all wet drainages from the harvest.																																																																																		
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3	3102 - Grass	Nonstocked	15.2		Unspecified	No	<p>Mix of grass and shrubs. Numerous clumps of sumac are present throughout the stand, although away from the road most of these clumps have been browsed severely and are below 3 feet tall, unsure how many of these stems are alive at this point. Clumps closer to the road and away from the browse pressure are taller and capable of producing mast. Some clumps of pine along the east edge but encroachment by trees is relatively limited at this point. Gently rolling terrain. Possibly an old homestead? There looks to be the remnants of an old foundation at the southeast corner of the stand.</p>																																																																																	
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4	6229 - Mixed lowland shrub	Nonstocked	5.9	0	Unspecified	No	<p>Truly an edge call, did not venture into this stand. The east half was formerly an E5 stand but all of the larger black ash in the stand are now dead from EAB. The west half of the stand used to have more live trees but most have died, likely due to water drainage issues. The birch and fir is primarily in this half of the stand.</p>																																																																																	
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5	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	7.8	88	111-140	N/A	<p>Moderate quality hardwood stand with a significant component of aspen, more common in the west half of the stand. Some of the aspen is large diameter (18"+ DBH). A lot of poor quality, suppressed sugar maple poletimber is present as this stand doesn't look like it has been thinned before. Diameters decrease sharply along the east side of the stand for some reason, White pine and fir are present mostly along the west edge of the stand. Although rare, there are a few clumps of large diameter, older sugar maple and basswood. Paper birch used to be a larger component of the stand but much of it has died. Average ba/acre from 5 plots = 118 square feet. This stand lies on a slight north-south ridgeline with gradual slopes going down to the east and west.</p>																																																																																	
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6	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	14.7	72	81-110	N/A	Lowland conifer stand with a significant amount of hardwoods mixed in. Upland along the north/northeast stand line but the remainder of the stand is mostly wet. A stream flows west to east through the middle of the stand. Most of the cedar can be found closer to the stream and in small clumps, however there are also some scattered individual stems throughout the stand. Quality and stocking are generally better in the more upland areas along the edge. Wetter areas have more sporadic stocking. Some scattered elm and white ash that are still alive, a few of the elm are nice sawtimber stems. A few of the white pine are over 30" DBH (legacy trees). Trace of basswood. Average ba/acre from 7 plots = 94 square feet. No management due to wet soils and the stream influence.																																																																							
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7	4130 - Aspen	Sapling Well	12.4	17	Immature	N/A	Fully-stocked aspen regeneration throughout the stand without any sign of past elk browse damage. A significant component of hardwood regeneration is present, mostly white ash. A few areas of wet ground. Trace of paper birch and white oak saplings. The High Country Pathway runs east-west through the length of the stand.																																																																							
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8	330 - Low-Density Trees	Nonstocked	3.2		Unspecified	No	Small non-managed opening that has clumps of trees scattered throughout. The west side of the stand has a clump of mixed species saps/poles. A few small clumps of BAM saplings are present in the middle and south parts of the stand. Red pine are scattered all throughout the stand. The south end of the stand has a lot of blackberry, raspberry, and some invasive honeysuckle.																																																																							
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<b>9</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	25.4	27	81-110	N/A	<p>This stand was clearcut in 1995 in the sale Amoeba Aspen (#53-003-94, Tulgetska). The previous stand examiner noted that there was significant browse damage, however since that time regeneration has responded well and is fully-stocked throughout the stand. Aspen is only dominant in the south half of the stand, where there are scattered clones of bigtooth aspen. The north half of the stand has a nice mix of hardwoods with only scattered quaking aspen, and there are some small areas of nearly pure paper birch. The fir component is mostly along the far northern edge as you get closer to lowlands. Most of the ash appears to be healthy at this point, although a few of the larger stems do show some EAB damage. There is an elk enclosure in the central part of the stand. Average ba/acre from 11 plots = 84 square feet. Rolling terrain in the north half of the stand. Small amount of invasive honeysuckle in the west/southwest part of the stand. The hardwood component in this stand will only increase in the future as the understory recruits into the overstory. Consider managing for hardwoods in the future, or at the least, managing this stand on a longer rotation (70-80 years) so that the hardwood component has a chance to mature.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Ash	11	Sapling	3		Sugar Maple	Low		Variable	Sapling
Sugar Maple	11	Sapling/Pole	4		White Ash	Medium		Variable	Sapling
Bigtooth Aspen	23	Pole/Sapling	5	27	Balsam Fir	Low		Variable	Sapling
Paper Birch	19	Sapling/Pole	3		Red Maple	Low		5 - 10 feet	Sapling
Balsam Fir	5	Sapling/Pole	3						
Balsam Poplar	1	Sapling/Pole	4						
Red Maple	2	Sapling	3						
Ironwood	4	Sapling	3						
Black Cherry	1	Sapling	3						
Quaking Aspen	23	Pole/Sapling	5						

<b>10</b>	6130 - Fir, Aspen, Maple	Sawtimber Well	17.0	61	81-110	N/A	<p>Mixed species stand sitting on very wet ground for the most part. A large drainage, possibly seasonal stream, goes southeast to northwest in the stand. Some areas have standing water and low overstory BAs. The northeast and north edges of the stand become upland. Timber quality throughout the stand is generally poor and not well-stocked in all places. Many of the larger aspen are close to death and good wildlife trees. Cedar can be found in small clumps throughout. Black ash used to be a moderate component of the overstory but it is now all dead and mostly fallen over. Several white ash along the northern stand edge are still alive, with some being close to sawlog size. Trace of white pine in the overstory. Average ba/acre from 6 plots = 95 square feet. No management, too wet.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
American Elm	1	Pole	6		Tag Alder	Low		10 - 20 feet	Tall Shrub
Northern White Cedar	10	Log/Pole	10		Paper Birch	Trace		>20 feet	Sapling
Balsam Poplar	3	Log/Pole	12		Red Maple	Trace		Variable	Sapling
Balsam Fir	27	Pole	6		Balsam Fir	Medium		Variable	Sapling
Quaking Aspen	34	Log/Pole/XLog	13	61	Black Cherry	Trace		>20 feet	Tall Shrub
White Spruce	4	Log/XLog	13		White Spruce	Trace		Variable	Sapling
White Ash	1	Pole	8		Serviceberry (Juneberry)	Trace		Variable	Tall Shrub
Red Maple	15	Log/Pole	10		Black Ash	Medium		Variable	Sapling
Paper Birch	5	Pole/Log	8						

<b>11</b>	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	3.4	70	201+	N/A	<p>Mixed species stand that is dominated by cedar. The east/southeast half of the stand is nearly pure cedar with very dense stocking and only a few scattered trees of other species in the canopy. As you move west the overstory starts to become more diverse with some fir, aspen, and maple mixed in. A couple very large white pine legacy trees are present. A few ash poletimber stems may still be alive. Average ba/acre from 4 plots = 225 square feet. The ground does not appear to be overly wet but does hold some water in the spring, probably a toss-up between upland or lowland. Portions of the west half of this stand may have been harvested when stand 53 to the west was last cut, but the remainder was left alone. Leave unmanaged due to the cedar component and the nearby house.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	2	Pole/Log	8		White Ash	Low		>20 feet	Sapling
Quaking Aspen	14	Pole/Log/XLog	9	52	Balsam Fir	Medium		>20 feet	Sapling
Red Maple	5	Pole	8						
White Pine	2	Log/XLog	14						
Balsam Fir	20	Pole/Sap/Log	7						
White Spruce	1	Log/Pole	11						
Balsam Poplar	1	Pole/Log	9						
Hemlock	10	Pole/Log	8						
Northern White Cedar	45	Pole/Log	8	70					



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<b>12</b>	42110 - Planted Red Pine	Sawtimber Well	74.4	62	81-110	N/A	Nice red pine plantation that was recently thinned in 2015 in the sale Centerbuzz 2 Red Pine (#53-024-14). Trace of red maple, sugar maple, basswood, BAM, and quaking aspen in the overstory. Average ba/acre from 16 plots = 103 square feet. A diverse understory that varies in composition is present throughout the stand, with some areas of excellent hardwood regeneration. In general, the south running arm of the stand has a well developed understory of sugar maple and white ash. The northwest portion of the stand tends to have mostly red maple with smaller amounts of fir and beech. The central part of the stand has more fir, red maple, and beech as well but also some pockets with sugar maple. Scattered areas without much regeneration can also be found in the central and northwest parts of the stand. Scattered oak saplings are present but rare. Some of the regeneration was destroyed after the most recent thinning, however much of it has re-sprouted with only minor browse damage, which is encouraging if a site conversion to hardwoods is considered for this stand. This stand will be ready for a final harvest next entry. Determine at that time whether to continue with red pine management or to convert the site to hardwoods.																																																																		
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<b>13</b>	4319 - Mixed Upland Forest	Poletimber Well	6.7	50	81-110	N/A	Moderate quality, mixed species stand. A thick fir component is present in the north half while there are some areas of lighter stocking with signs of past blowdown in the south half. The ground is mostly dry but becomes wetter as you get to the eastern stand edge. There is also an area of wet ground in the middle part of the stand, which is where most of the cedar is located. White ash and elm used to be larger components of the stand but most are now dead, except for a few ash and elm poletimber stems and 2 elm sawlog stems. A second age class of large diameter aspen is infrequently scattered throughout with most appearing close to death and providing good wildlife habitat. Trace of basswood in the overstory. Average ba/acre from 6 plots = 92 square feet.																																																																		
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<b>14</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	4.9	88	81-110	N/A	Moderate to low quality hardwoods with some scattered supercanopy aspen. Some of the birch is in decline. A few areas of fir blowdown from many years ago. Trace of basswood. Average ba/acre from 6 plots = 82 square feet. Old inventory notes mention a hawk nest in one of the large aspen, I didn't see one but I also didn't look at every single aspen tree in the stand.																																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>15</b>	6112 - Lowland Aspen	Sapling Well	40.3	27	Immature	N/A	<p>This stand was clearcut in 1995 in the sale Amoeba Aspen (#53-003-94, Tulgetska). Regeneration came back well in most areas and while aspen is dominant, there are a few areas with some tree species diversity. Diameters on the aspen are sub-merchantable in most areas but there are a few spots that average over 5" DBH. There are a few non-forested areas of lower stocking which look like old landings, one at the southwest end and one at the north. The semi-open area to the north has partially filled in with fir and has a nice representation of red and white oak saplings. Most of the ash still appears to be alive, although it's hard to say how long they will survive. Black cherry shows good form in a few areas, with some stems that look like they will be merchantable. The ground throughout the stand is a mix of upland and lowland, with lowland being slightly more abundant. The northwest running part of the stand is nearly all lowland, while the remainder of the stand is closer to a 50/50 split. Old rutting damage can still be seen in leaf-off imagery in some of the wetter areas. Trace of residual cedar throughout the stand. Trace of elm, tamarack, and ironwood in the overstory sapling layer.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	40	Sapling/Pole	3	27	Black Cherry	Low		Variable	Tall Shrub
White Pine	1	Pole/Sapling	5		Balsam Fir	Medium		Variable	Sapling
White Ash	1	Sapling/Pole	3		Michigan Holly	Low		5 - 10 feet	Tall Shrub
White Oak	1	Sapling	3		Willow spp.	Low		>20 feet	Tall Shrub
Paper Birch	9	Sapling/Pole	3		Ironwood	Trace		10 - 20 feet	Sapling
Red Maple	7	Sapling/Pole	3		White Spruce	Trace		5 - 10 feet	Sapling
White Spruce	2	Sapling	3		Red Maple	Trace		Variable	Sapling
Balsam Poplar	18	Sapling/Pole	4		Tag Alder	Low		10 - 20 feet	Tall Shrub
Red Pine	1	Sapling/Pole	4						
Balsam Fir	15	Sapling/Pole	3						
Black Ash	2	Sapling	2						
Black Cherry	2	Sapling	3						
Red Oak	1	Sapling/Pole	4						

<b>16</b>	6139 - Mixed Lowland Forest	Poletimber Medium	4.3	92	51-80	N/A	<p>Mostly a wet stand although there are some areas of drier ground in the northern part of the stand. Cedar and more of the maple can be found in the north half. The south half has more of the fir and spruce. Thick understorey of lowland shrubs in areas. Quite a bit of older blowdown in places which has resulted in lower stocking. Average ba/acre from 4 plots = 59 square feet. No management due to wet soils.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Northern White Cedar	19	Pole/Log	9		Michigan Holly	High		5 - 10 feet	Tall Shrub
American Elm	1	Pole	6		Tag Alder	Medium		10 - 20 feet	Tall Shrub
Red Maple	19	Pole/Log	8		Balsam Fir	Medium		Variable	Sapling
Balsam Fir	26	Pole/Sap/Log	6	92					
Black Spruce	13	Pole/Log	8						
Quaking Aspen	11	Log/XLog	15						
Paper Birch	11	Log/Pole	11						

<b>17</b>	4130 - Aspen	Poletimber Well	30.7	35	81-110	N/A	<p>Nice stand of young aspen. Nice hardwood understorey in some areas of the stand. A small amount of sawlog-sized residual hardwoods are present in the stand. Last clearcut in 1987 in the sale Buzzels Road Aspen (#53-017-84, Hyde's Forest Products). Some of the ash is still alive including a few sawlog-sized stems. The cherry shows good form on most stems. Trace of basswood, white pine, and elm in the overstorey. Average ba/acre from 10 plots = 90 square feet. Invasive honeysuckle mostly at the south end of the stand. A few large hawthorn and serviceberry stems. Pockets of wet ground in the stand. A wet drainage is present at the southwest corner of the stand, flowing southeast into stand 80. There also appears to be a small seasonal drainage along the southeast edge of the stand, going down to the southwest and also eventually joining with stand 80. Areas of wet ground are also present in the northwest and northeast parts of the stand, these areas appear only marginally wet and are operable. The High Country Pathway runs east-west through the southern part of the stand.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	7	Pole/Sap/Log	7		Red Maple	Low		>20 feet	Sapling
White Ash	2	Pole	6		Hawthorn (spp.)	Trace		Variable	Tall Shrub
Balsam Fir	3	Pole/Log	8		White Ash	Low		>20 feet	Sapling
Red Maple	3	Pole/Sap/Log	6		Balsam Fir	Low		Variable	Sapling
Black Cherry	1	Pole/Sapling	5		Serviceberry (Juneberry)	Trace		Variable	Tall Shrub
Bigtooth Aspen	37	Pole/Log/Sap	8		Ironwood	Low		>20 feet	Sapling
Quaking Aspen	47	Pole/Sapling	7	35	Beech	Trace		Variable	Sapling
					Smooth Tartarian Honeysuckle	Trace		5 - 10 feet	Tall Shrub
					Sugar Maple	Medium		>20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
18	4130 - Aspen	Sapling Well	15.2	23	Unspecified	N/A	<p>Clearcut in 1999 in the sale Buzzels Southeast Aspen (#53-005-94, Crawford Forest Products). Aspen regenerated moderately well but it is not well-stocked in all areas. Diameters on the aspen vary considerably, especially the quaking aspen, which ranges anywhere from 2-5 inches in diameter. Beavers have removed most of the aspen along the entire west side of the stand. Newer beaver activity is present along the northeast side of the stand. Interesting stand in that although it is upland and on a slight ridge, and higher than adjacent lowland stands, there are still pockets of wet ground in the middle parts of the stand. Invasive buckthorn and honeysuckle are well established along the old road that travels northwest-southeast through the western part of the stand, and the buckthorn has spread throughout much of the northern half of the stand as well.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Northern White Cedar	1	Log/Pole	11		Willow spp.	Low		Variable	Tall Shrub
Bigtooth Aspen	44	Sapling/Pole	4	23	Choke Cherry	Low		5 - 10 feet	Tall Shrub
Sugar Maple	1	Sapling	4		Serviceberry (Juneberry)	Low		5 - 10 feet	Tall Shrub
White Ash	2	Sapling	3		Red Maple	Trace		Variable	Sapling
White Pine	2	Pole/Sapling	5		Common Buckthorn	Medium		5 - 10 feet	Tall Shrub
Balsam Fir	11	Sapling	3		Balsam Fir	Medium		Variable	Sapling
Ironwood	1	Sapling	3		Smooth Tartarian Honeysuckle	Low		5 - 10 feet	Tall Shrub
Red Oak	1	Sapling/Pole	4		Black Cherry	Medium		Variable	Tall Shrub
Quaking Aspen	31	Sapling/Pole	3	23	White Ash	Low		Variable	Sapling
Red Maple	4	Sapling	3						
Black Cherry	1	Sapling	3						
White Spruce	1	Sapling	3						
19	4119 - Mixed Northern Hardwoods	Poletimber Well	22.1	80	81-110	N/A		<p>Hardwood stand of varying quality. Some areas with open-grown, wolfy sugar maple but others with dense stocking and nice sugar maple crop trees. Best quality can be found in the southern 1/3rd of the stand and in some pockets along Centerline Road. Fir and aspen tend to occur in small clumps throughout the stand. The aspen is mostly large diameter, poor quality, and starting to senesce, however there are a few areas with a second age class of younger aspen in the 8-12" range which leads me to believe this stand had a partial harvest at one point, however no sale records exist for this stand. A few small clumps of younger paper birch scattered throughout. A couple of red oak poletimber stems can be found up and down the edge of Centerline Road. Trace of yellow birch, BAM, and white spruce in the overstory. Average ba/acre from 11 plots = 99 square feet. A seasonally wet area with pit and mound topography is present in the middle part of the stand and extends northeast to the edge of stand 15 (P3). A popular dispersed camping area is present in the small open area where Road 21 passes through. This stand should be managed together with stand 69 to the south in Compartment 24. Manage for hardwoods, let most of the aspen die but create a few small gaps in areas of better aspen quality.</p>	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Balsam Fir	13	Pole/Log	8		Ironwood	Low	Variable		Sapling
White Pine	1	Pole/Log	8		Paper Birch	Trace	>20 feet		Sapling
Ironwood	1	Pole	5		Balsam Fir	Medium	Variable		Sapling
Paper Birch	7	Pole/Log	8		Witch Hazel	Trace	5 - 10 feet		Tall Shrub
Basswood	9	Log/XLog/Pole	13		Beech	Trace	Variable		Sapling
Red Maple	3	Pole/Log	8						
Quaking Aspen	15	Log/Pole/XLog	13						
Bigtooth Aspen	3	Log/XLog	15						
Sugar Maple	46	Pole/Log	9	80					
Beech	2	Pole/Log	8						
20	6229 - Mixed lowland shrub	Nonstocked	17.3		Unspecified	No	<p>This stand includes a separate stream in each finger of the stand. Various beaver floodings throughout the years (compare imagery from different years), recent activity at the south and north ends. Did not visit much of this stand other than looking at it from a few of the edges.</p>		
Sub-Canopy Species	Density	Avg. Height	Size						
Tag Alder	Medium	5 - 10 feet	Tall Shrub						
Mixed Grasses	High	Unspecified	Non-Wood						
Balsam Poplar	Low	Variable	Sapling						
Willow spp.	Low	Variable	Tall Shrub						





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
21	4130 - Aspen	Poletimber Well	24.4	35	81-110	N/A	<p>Aspen stand that was clearcut in 1987 in the sale Buzzels Road Aspen (Hyde's Forest Products, #53-017-84). Aspen regenerated well along with a nice component of sugar maple and ash in the understory, which is more common along the west edge adjacent to the hardwood stand. Many of the smaller ash appear to be healthy and free of EAB. The original clearcut left scattered residual stems of fir, aspen, paper birch, maple, white pine, and basswood throughout the stand, which gives the stand a two-aged appearance in places. The far north end adjacent to the lowland is primarily fir as beavers have removed most of the aspen in this area. Numerous wet drainages spill into this stand from the higher hardwood stand to the west/southwest. Most of these drainages flow through the stand, joining with the lowlands to the east. A drainage at the far east end of the stand has flowing water and resembles more of a seasonal stream. Of course, it doesn't look like any of these water features were protected from damage during the previous clearcut. A small semi-open area is present at the east end of the stand, and is filling in with white pine and some invasive honeysuckle. In addition to the residual stems mentioned above there are also trace amounts of red oak (pole/log) and elm (pole) in the stand. Average ba/acre of the stand from 8 plots = 84 square feet. Aspen diameters are still too small at this point to recommend a harvest. The stand will likely be ready next entry, protect all water features when implementing the treatment.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	32	Pole/Sapling	6		Smooth Tartarian Honeysuckle	Trace		5 - 10 feet	Tall Shrub
White Pine	1	Log/XLog	15		Serviceberry (Juneberry)	Trace		Variable	Tall Shrub
Basswood	1	Log/Pole	11		Red Maple	Low		>20 feet	Sapling
Bigtooth Aspen	35	Pole/Sapling	7	35	White Ash	Medium		>20 feet	Sapling
Sugar Maple	6	Pole/Sap/Log	6		Balsam Fir	Medium		Variable	Sapling
Red Maple	5	Pole/Log	8		Sugar Maple	Medium		>20 feet	Sapling
White Ash	2	Pole/Sapling	5						
Balsam Fir	18	Pole/Sap/Log	6						
22	3105 - Mixed Upland Herbaceous	Nonstocked	2.7		Unspecified	No	<p>North half of the stand has more grass, while the south half has a lot of bracken. A few clumps of balsam poplar saps, including a larger clump along the east side of the stand adjacent to the red pine stand. This looks like it was the landing when adjacent stand 15 was cut.</p>		
Sub-Canopy Species	Density	Avg. Height	Size						
Smooth Tartarian Honeysuckle	Trace	5 - 10 feet	Tall Shrub						
Wild Red Raspberry	Low	< 5 feet	Tall Shrub						
Bracken Fern	Medium	Unspecified	Non-Wood						
Balsam Fir	Trace	Variable	Sapling						
Red Pine	Trace	Variable	Sapling						
Balsam Fir	Trace	>20 feet	Pole						
Mixed Grasses	High	Unspecified	Non-Wood						
Black Cherry	Low	>20 feet	Tall Shrub						
Balsam Poplar	Low	Variable	Sapling						
23	4139 - Aspen, Mixed Deciduous	Sapling Well	13.2	17	Immature	N/A	<p>Clearcut in 2005 in the sale Leftover Aspen (#53-001-04, Socha Forestry). Well-stocked regeneration with an excellent representation of sugar maple both in the canopy and subcanopy. Trace of red oak, white oak, and elm saplings. The far northwest part of the stand has some residual pine. Invasive honeysuckle is taking over the understory in areas of the stand, especially east of the road. This stand should be managed for hardwoods as it will grow into a fully-stocked sugar maple stand in the future.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	1	Sapling/Pole	4		Balsam Fir	Trace		Variable	Sapling
White Ash	7	Sapling	2		Ironwood	Trace		Variable	Sapling
Bigtooth Aspen	9	Sapling/Pole	4		Sugar Maple	High		Variable	Sapling
Basswood	1	Sapling	3		White Ash	Low		Variable	Sapling
Red Maple	3	Sapling	3		Beech	Trace		Variable	Sapling
Sugar Maple	40	Sapling	2		Black Cherry	Low		Variable	Tall Shrub
Quaking Aspen	37	Sapling	3	17	Smooth Tartarian Honeysuckle	Medium		5 - 10 feet	Tall Shrub
Black Cherry	2	Sapling	3						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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24 3105 - Mixed Upland Herbaceous Nonstocked 3.1 Unspecified No

Grassy opening filling in with white pine. The eastern part of the stand is on a side-slope and there is a dug out pit in this area that kind of looks like an old building site.

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Trace	>20 feet	Pole
Sugar Maple	Trace	>20 feet	Log
Red Pine	Trace	>20 feet	Pole
White Spruce	Trace	< 5 feet	Seeding
White Pine	Medium	>20 feet	Pole
Balsam Fir	Trace	Variable	Sapling
Smooth Tartarian Honeysuckle	Trace	5 - 10 feet	Tall Shrub
Paper Birch	Trace	>20 feet	Pole
Black Cherry	Low	Variable	Tall Shrub
Mixed Grasses	Full	Unspecified	Non-Wood
Red Pine	Trace	< 5 feet	Seeding
Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
White Pine	Trace	< 5 feet	Seeding
Apple (spp.)	Trace	>20 feet	Tall Shrub
Bracken Fern	Medium	Unspecified	Non-Wood
Red Pine	Trace	Variable	Sapling
Autumn Olive	Trace	5 - 10 feet	Tall Shrub
White Pine	Medium	Variable	Sapling
Balsam Fir	Trace	< 5 feet	Seeding

25 4110 - Sugar Maple Association Sawtimber Well 59.1 97 81-110 N/A

Moderate to high quality hardwood stand with some large diameter trees. Basal areas vary considerably due to an aspen species removal in 1976. Canopy gaps created from that harvest have filled in with hardwood species, with a few of the gaps having excellent advanced sugar maple regeneration. The sugar maple regen tends to be more common in the north half of the stand. Most of the ash regeneration is still alive, including some stems that are recruiting into the poletimber size class. Terrain in this stand is characterized by a series of ridges and valleys, all sloping down to the north/northeast. Nearly every valley has a wet drainage in it, with the furthest one to the east having a seasonal stream. Portions of the upper slopes, particularly in the south half, have pit and mound topography with small vernal pools, and appear to be where the drainages originate (see leaf-off imagery). Beech tends to be most common on the upper slopes along the west edge and is locally abundant in places, with most having BBD. Average ba/acre of the stand from 13 plots = 82 square feet. The High Country Pathway passes east-west through the south end of the stand. The amount of wet ground in this stand limits operability to only a few areas (see site conditions layer). No management should ever take place in the wet areas.

Canopy Species	% Cover	Size Class	DBH	Age
Beech	12	Log/Pole/XLog	11	
White Ash	1	Pole	5	
Ironwood	1	Pole	5	
Balsam Fir	1	Pole/Log	8	
Basswood	40	Log/XLog/Pole	13	97
Sugar Maple	42	Log/Pole/XLog	11	97
Red Maple	3	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Low	Variable	Sapling
Beech	Low	Variable	Sapling
Red Oak	Trace	>20 feet	Sapling
White Ash	Medium	>20 feet	Sapling
Balsam Fir	Trace	Variable	Sapling
Sugar Maple	Medium	>20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
27	3105 - Mixed Upland Herbaceous	Nonstocked	1.9		Unspecified	No	Small non-managed opening. Invasive honeysuckle clumps along the west edge of the stand.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Spruce	Trace	>20 feet	Pole	
								Black Cherry	Trace	Variable	Tall Shrub	
								Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub	
								Mixed Grasses	Full	Unspecified	Non-Wood	
								Quaking Aspen	Trace	Variable	Sapling	
								Bracken Fern	Medium	Unspecified	Non-Wood	
								Smooth Tartarian Honeysuckle	Low	5 - 10 feet	Tall Shrub	
								Balsam Fir	Trace	Variable	Sapling	
28	310 - Herbaceous Openland	Nonstocked	1.7		Unspecified	No	Small opening that is filling in with white pine.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Pine	Trace	Variable	Sapling	
								White Pine	Trace	< 5 feet	Seeding	
								Mixed Grasses	Full	Unspecified	Non-Wood	
								Sweet Fern	Low	< 5 feet	Tall Shrub	
								White Pine	Medium	Variable	Sapling	
								White Pine	Medium	>20 feet	Pole	
								Bracken Fern	Medium	Unspecified	Non-Wood	
								Common Blackberry	Low	< 5 feet	Tall Shrub	
29	6123 - Lowland Fir	Sapling Well	1.3	45	51-80	N/A	Very wet stand with either a creek or drainage flowing through it, joining the L type to the south. There is so much water in the stand currently that it's difficult to tell if there is an actual stream channel. Found 1 yellow birch sapling (yay!). Recent beaver activity directly to the south in the L type.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	3	Pole	7	
								Northern White Cedar	10	Log/Pole	11	
								Balsam Fir	80	Sapling/Pole	4	45
								Balsam Poplar	7	Pole	6	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Tag Alder	Medium	10 - 20 feet	Tall Shrub	
								Balsam Fir	Medium	5 - 10 feet	Sapling	
								Black Ash	Low	Variable	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
30	4130 - Aspen	Poletimber Well	15.6	48	81-110	N/A	Moderate to high quality aspen stand. Very nice understory of sugar maple and ash along the west and south parts of the stand. Many of the ash are still alive, including some larger stems that are a part of the canopy. Invasive honeysuckle becomes very thick in parts of the northern half. Terrain slopes gently down to the east/northeast and there are numerous small drainages in shallow depressions that meander down to the adjacent lowland stand (see site conditions layer). There are also a few areas with numerous small vernal pools. A few clumps of cedar are present along the east edge of the stand. Fir is mostly in the southeast part of the stand. Trace of paper birch, white pine, and black cherry in the overstory. Trace of basswood and red oak saplings. Average ba/acre from 10 plots = 106 square feet.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	4	Pole/Sapling	5		smooth Tartarian Honeysuckle	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	6	Pole	6		Black Cherry	Trace	>20 feet	Tall Shrub
Red Pine	1	Log/Pole	12		White Ash	Medium	>20 feet	Sapling
Red Maple	1	Pole	8		Serviceberry (Juneberry)	Trace	10 - 20 feet	Tall Shrub
White Ash	3	Pole	6		Sugar Maple	Medium	>20 feet	Sapling
Quaking Aspen	65	Pole/Log	8	48	Ironwood	Medium	>20 feet	Sapling
Bigtooth Aspen	16	Pole/Log	9	48	Balsam Fir	Trace	Variable	Sapling
Northern White Cedar	4	Log/Pole	11		Paper Birch	Trace	>20 feet	Sapling
31	4134 - Aspen, Spruce/Fir	Poletimber Well	54.7	37	81-110	N/A	Moderate quality aspen stand. Clearcut in 1985 in the sale Buzzels Road Aspen (#53-018-84, Hyde's Forest Products). Fully-stocked regeneration in the majority of the stand. Aspen has just reached merchantability in most places, although there are a few small areas, such as the far west end and some bigtooth clones along the north stand line, where diameters are larger (8-10" DBH). Species composition varies somewhat with the eastern half of the stand having a much larger component of hardwoods. In some areas the hardwoods are dominant including some small patches of nearly pure birch. Fir is widespread throughout, especially along the southern stand edge where beavers removed a lot of the aspen in the past. Recent beaver activity was noted at the far west end of the stand. There are a couple of large drainages in gradual ravines that pass south/southeast through the stand (see site conditions layer for best guess of their locations). There are also some large seeps and areas of wet ground in the central part of the stand that extend to the northern stand line, just east of the interior U stand (stand #87). Cattails and heavily browsed red-osier dogwood can be found at the ground level in parts of these wet areas, and old ruts from the previous harvest are still evident. Trace of red pine, red oak, basswood, and elm in the overstory. Trace of white pine legacy trees. Average ba/acre from 17 plots = 94 square feet. This stand probably needs two more entries before being ready for a harvest. Protect all drainages and seeps from harvesting.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	3	Pole	7		Red Maple	Low	Variable	Sapling
White Ash	1	Sapling/Pole	4		Serviceberry (Juneberry)	Low	>20 feet	Tall Shrub
Paper Birch	3	Sapling/Pole	4		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	46	Pole/Sapling	5	37	Tag Alder	Trace	10 - 20 feet	Tall Shrub
Red Maple	3	Pole/Sapling	5		Sugar Maple	Trace	>20 feet	Sapling
Bigtooth Aspen	15	Pole/Sap/Log	7		White Ash	Low	Variable	Sapling
White Spruce	3	Pole/Sap/Log	6		smooth Tartarian Honeysuckle	Trace	5 - 10 feet	Tall Shrub
Balsam Fir	25	Pole/Sapling	5		White Spruce	Trace	Variable	Sapling
White Pine	1	Pole/Log	8		Basswood	Trace	>20 feet	Sapling
					Paper Birch	Low	>20 feet	Sapling
					Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
					Black Cherry	Low	Variable	Tall Shrub
32	4130 - Aspen	Sapling Medium	20.7	11	Immature	N/A	Stand harvested in 2010-11 in the sale Crockett Rapids Hardwoods (Nash, #53-008-04). Good regeneration in many areas but virtually no species diversity at all, only poplar species. Numerous wet areas and drainages in the stand, none were protected during the harvest, and regeneration is struggling in these areas. Some of the wet areas are filled with cattails and heavily browsed red-osier dogwood. Leaf-off imagery shows rutting damage in these wet areas which is likely another reason that regeneration is struggling. The east half of the stand tends to be drier. The landing for the harvest was placed at the southwest corner, right where a drainage enters the stand and has all the signs of a wetland, an obvious BMP violation. Heavy deer activity throughout, with numerous trails crisscrossing the stand. Beavers are actively removing aspen at the northwest corner of the stand.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	3	Sapling	1		Red Osier Dogwood	Low	< 5 feet	Tall Shrub
Quaking Aspen	80	Sapling	1	11	Cattail spp.	Low	Unspecified	Non-Wood
Balsam Poplar	7	Sapling	1		Black Ash	Low	< 5 feet	Seeding
Bigtooth Aspen	10	Sapling	1					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
33	629 - Mixed non-forested wetland	Nonstocked	27.3		Unspecified	No	A stream passes through this stand. Currently dammed by beavers at the far southeast end. Did not visit the stand other than looking at a few spots along the edge.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Balsam Poplar	Low	Variable	Sapling					
								Willow spp.	Medium	Variable	Tall Shrub					
								Balsam Fir	Low	Variable	Sapling					
Mixed Grasses	High	Unspecified	Non-Wood													
34	4130 - Aspen	Poletimber Well	37.4	35	81-110	N/A	Emerging aspen poletimber stand sitting on varying levels of site quality. Rolling terrain throughout, which tends to slope down to the southeast and southwest. Best site quality can be found in the upper slopes along the north and east sides of the stand. These areas are primarily bigtooth aspen with scattered pockets of excellent sugar maple regeneration in the understory. Scattered residual sugar maple and basswood can be found throughout this area as well, with a few XL-sized stems. Lower slopes along the south and southwest parts of the stand have less productive soils and most of the quaking aspen is located in these areas. Quaking aspen diameters vary considerably, with several areas of sub-merchantable stems. A wet drainage and seasonal stream flow south through a ravine in the middle of the stand, effectively splitting the stand into two halves. This drainage does not appear to have been protected from when this stand was last clearcut in 1987 (Buzzels Road Aspen, 53-017-84, Hyde's Forest Products). A few other small drainages are present in the west half of the stand, flowing down into the P7 stand (#80). White ash is scattered throughout, with many of the smaller poletimber stems still appearing to be alive. Red maple seems to be confined to the far west end of the stand. Trace of white pine, beech, red oak, and white spruce in the overstory. Average ba/acre from 11 plots = 95 square feet. Invasive honeysuckle is locally abundant in portions of the west half of the stand. Heavy deer browse noted on the understory in some areas. This stand will likely be ready for a harvest next entry, protect all drainages when a harvest is prescribed and exclude areas of good sugar maple regeneration.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Red Maple	2	Pole/Sapling	6		Beech	Trace	Variable	Sapling
								Quaking Aspen	31	Pole/Sapling	6		Ironwood	Medium	>20 feet	Sapling
								Basswood	1	Log/XLog/Pole	14		Sugar Maple	Medium	>20 feet	Sapling
								Bigtooth Aspen	51	Pole/Sap/Log	7	35	White Ash	Medium	>20 feet	Sapling
								Sugar Maple	7	Pole/Sap/Log	6		Red Maple	Trace	>20 feet	Sapling
								White Ash	3	Pole/Sapling	5		ooth Tartarian Honeysuckle	Low	< 5 feet	Tall Shrub
								Balsam Fir	2	Pole	6		Black Cherry	Trace	Variable	Tall Shrub
								Ironwood	2	Pole/Sapling	5		Serviceberry (Juneberry)	Trace	Variable	Tall Shrub
								Black Cherry	1	Pole	6		Balsam Fir	Low	Variable	Sapling
								35	4110 - Sugar Maple Association	Sawtimber Well	31.0	84	81-110	N/A	Moderate quality hardwoods. Thinned in 2010 in the sale Crockett Rapids Hardwoods (Nash, #53-008-04). Some areas were cut hard with BAs under 50 square feet, other areas not so much. Thick layer of raspberry in many places. Not much good regen to speak of at this point, no signs of sugar maple seedlings. Numerous wet areas in the stand, including some large drainages near the middle part of the stand and at the south end, none of these were protected during the harvest. A few areas of rutting noted. Trace of paper birch, yellow birch, beech, and bigtooth aspen. Average ba/acre from 8 plots = 95 square feet. The High Country Pathway runs north-south down the west side of the stand. Future management should protect all wet areas.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height									Size
Quaking Aspen	1	Log/XLog	16		Common Blackberry	Low	< 5 feet									Tall Shrub
Sugar Maple	54	Log/Pole	10	84	Ironwood	Medium	5 - 10 feet									Sapling
Red Maple	2	Log/Pole	10		ooth Tartarian Honeysuckle	Trace	< 5 feet									Tall Shrub
Basswood	43	Log/Pole/XLog	12	84	White Ash	Medium	5 - 10 feet	Sapling								
					Wild Red Raspberry	High	< 5 feet	Tall Shrub								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																											
<b>36</b>	6118 - Lowland Deciduous with Cedar	Sawtimber Medium	5.7	88	51-80	N/A	Generally a poor-quality stand with areas of low stocking. Lots of older blowdown. Some very large aspen scattered throughout. Cedar tends to be in clumps. Very wet throughout most of the stand except for the west edge. Stick nest in a 26" quaking aspen in the NW part of the stand. Average ba/acre from 4 plots = 78 square feet. Too wet for management.																																																																																											
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<b>37</b>	42330 - Upland Fir	Poletimber Well	6.7	52	81-110	N/A	Small pocket of fir that was apparently not cut when adjacent stand 38 was cut. A few older, larger diameter aspen, maple, and birch are scattered throughout. The south half of the stand is mostly dry but the north half is wet and looks to be where the drainage from stand 96 spills into as this area has seep-like characteristics. Trace of white ash poletimber that is alive. Average ba/acre from 5 plots = 90 square feet. All of the stand sits on a gradual southwest-facing slope. A few small areas of blowdown are present. Some older beaver sign scattered throughout.																																																																																											
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<b>38</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	19.8	46	81-110	N/A	Decent quality aspen stand. Diameters tend to vary and seem to decrease the further west and northwest in the stand. Some areas with a nice hardwood understory, most common along the south and east stand edges. The far west end of the stand becomes primarily spruce and fir with some scattered areas of lower stocking. Trace of red pine, elm, and black cherry (poletimber size). Average ba/acre from 7 plots = 104 square feet. Mostly flat terrain with some moderate slopes along the edges. A wet drainage starts in the northwest part of the stand and flows south/southwest into stand 96. There is another drainage along the east edge that travels north/south. Additional areas of wet ground are scattered throughout the central and northern parts of the stand.																																																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**39** 3105 - Mixed Upland Herbaceous Nonstocked 1.2 Unspecified No Lots of bracken, not much else.

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Trace	Variable	Tall Shrub
Mixed Grasses	Medium	Unspecified	Non-Wood
Common Blackberry	Medium	< 5 feet	Tall Shrub
Balsam Fir	Trace	< 5 feet	Seeding
Balsam Poplar	Trace	5 - 10 feet	Sapling
Serviceberry (Juneberry)	Trace	Variable	Tall Shrub
White Spruce	Trace	< 5 feet	Seeding
Bracken Fern	High	Unspecified	Non-Wood
Smooth Tartarian Honeysuckle	Trace	5 - 10 feet	Tall Shrub

**40** 3105 - Mixed Upland Herbaceous Nonstocked 4.3 Unspecified No Old barn foundation in the middle of the opening. Most pine is at the north and south ends. Some wetter ground along the east edge including some areas of ponded water that formed after that side was used as a landing for the adjacent spruce timber sale.

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Trace	10 - 20 feet	Tall Shrub
Red Pine	Low	>20 feet	Pole
Smooth Tartarian Honeysuckle	Trace	5 - 10 feet	Tall Shrub
White Spruce	Trace	Variable	Sapling
Black Cherry	Trace	Variable	Tall Shrub
White Pine	Low	>20 feet	Pole
White Pine	Low	Variable	Sapling
Mixed Grasses	Full	Unspecified	Non-Wood

**41** 4110 - Sugar Maple Association Poletimber Well 4.1 84 81-110 N/A Small stand of hardwood that had the aspen cut out when adjacent stand 48 was harvested in 1999. A narrow swath of aspen regen runs east-west through the middle of the stand, this area is also somewhat wet. That is mostly the only place in the stand with aspen regen. The sugar maple saplings in the stand are not new in-growth but instead are the old, suppressed saplings that are the same age as the overstory trees. Average ba/acre from 3 plots = 100 square feet.

Canopy Species	% Cover	Size Class	DBH	Age
Basswood	17	Log/Pole	13	
Beech	1	Log/Pole	10	
Ironwood	1	Pole	7	
Sugar Maple	81	Pole/Log	8	84

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Low	Variable	Sapling
Bigtooth Aspen	Low	>20 feet	Sapling
Sugar Maple	Low	Variable	Sapling
White Ash	Trace	5 - 10 feet	Sapling
Quaking Aspen	Low	>20 feet	Sapling
Balsam Fir	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
42	320 - Upland Shrub	Nonstocked	3.9	0	Unspecified	429 - Mixed Upland Conifers	Stand clearcut in 2017 in the sale Buzzels Spruce Plus (#53-005-17, Precision). This was formerly a fully-stocked white spruce plantation with some red pine mixed in at the south end. All of the spruce were cut along with most of the red pine. Regeneration has not come back well as there is a thick layer of raspberry and sedge throughout most of the stand (see regen survey results). In addition, invasive honeysuckle has established throughout many parts of the stand. Near 50/50 split between upland and lowland; wet area in the middle of the stand with drier ground on both sides except for the east and west edges which become wet again. Rutting issues throughout the stand (see recent leaf-off imagery), especially along the north edge where some are in excess of 3 feet deep.  Regen survey results: quaking aspen 290 TPA (3'), balsam poplar 320 TPA (variable heights), white spruce 144 TPA (1'), balsam fir 40 TPA (1'), and red pine 20 TPA (1'). Inadequate regeneration in many spots. Two survey plots fell in some of the only areas with good BAM and QA regeneration so their total TPA numbers are skewed higher than they should be. Heavy deer browse on some of the fir, quaking aspen, ash, and even balsam poplar. Not sure what to do next, handplant white spruce?					
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Spruce	Low	< 5 feet	Seeding	
								White Pine	Low	>20 feet	Log	
								Balsam Poplar	Low	< 5 feet	Seeding	
								Common Blackberry	Low	< 5 feet	Tall Shrub	
								Red Pine	Trace	< 5 feet	Seeding	
								Balsam Fir	Trace	< 5 feet	Seeding	
								Wild Red Raspberry	High	< 5 feet	Tall Shrub	
								Quaking Aspen	Low	< 5 feet	Seeding	
								Autumn Olive	Trace	5 - 10 feet	Tall Shrub	
								Balsam Poplar	Trace	5 - 10 feet	Sapling	
								Tag Alder	Medium	5 - 10 feet	Tall Shrub	
								Red Pine	Trace	>20 feet	Log	
Smooth Tartarian Honeysuckle	Medium	< 5 feet	Tall Shrub									
43	4134 - Aspen, Spruce/Fir	Poletimber Well	22.7	35	81-110	N/A	Moderate quality aspen stand with considerable variation in size. Clearcut in 1987 in the sale Buzzels Road Aspen (Hyde's Forest Products, #53-017-84). Bigtooth aspen is primarily at the southeast end of the stand and shows excellent growth. Quaking aspen is more common in the north half, but diameters vary depending on how wet the ground is. Numerous drainages spill into the central and northwest part of the stand, creating a large area of wet ground with a few vernal pools as well (see leaf-off imagery and site conditions layer). In these areas the quaking aspen is very small, barely merchantable in most places. Rutting damage from the previous harvest is extensive throughout this area. Diameters become larger in the drier areas to the east. Fir is dominant along the northeast edge of the stand as beavers removed most of the aspen in this area. Most of the smaller sapling and poletimber ash appear healthy. Trace of residual sugar maple and basswood scattered throughout. Trace of red oak poletimber. A few apple trees and hawthorn are present near the small openings adjacent to the old road in the stand. Average ba/acre of the stand from 10 plots = 93 square feet. This stand will likely be ready for a harvest next entry. Exclude all wet areas, which make up a significant portion of the stand.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	1	Pole	6	
								Bigtooth Aspen	15	Pole/Log	8	
								Quaking Aspen	54	Pole/Sapling	7	35
								Balsam Poplar	5	Pole	6	
								Balsam Fir	22	Pole/Sapling	6	
								Sugar Maple	1	Pole/Log	8	
								White Ash	2	Pole/Sapling	5	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Balsam Fir	Medium	Variable	Sapling	
								Hawthorn (spp.)	Trace	Variable	Tall Shrub	
								Ironwood	Low	Variable	Sapling	
								Apple (spp.)	Trace	Variable	Tall Shrub	
Basswood	Trace	>20 feet	Sapling									
American Elm	Trace	Variable	Sapling									
Sugar Maple	Trace	>20 feet	Sapling									
Red Maple	Low	Variable	Sapling									
Black Cherry	Trace	>20 feet	Tall Shrub									
White Ash	Medium	>20 feet	Sapling									
Serviceberry (Juneberry)	Trace	Variable	Tall Shrub									
Smooth Tartarian Honeysuckle	Trace	5 - 10 feet	Tall Shrub									
44	42110 - Planted Red Pine	Sawtimber Well	10.3	61	51-80	N/A	This stand was row-thinned in 1996 and second-thinned in 2017. Nice red pine but BAs are pretty low with an average of 70 square feet from 4 plots. A couple of white ash poletimber trees are alive and appear healthy. Heavy deer browse on the white ash below 5 feet tall. Trace of red maple, paper birch, and balsam poplar poletimber.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Ash	1	Pole	5	
								Red Pine	98	Log	13	61
								Balsam Fir	1	Pole	5	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Balsam Fir	Low	Variable	Sapling	
								Smooth Tartarian Honeysuckle	Trace	5 - 10 feet	Tall Shrub	
								White Ash	Medium	< 5 feet	Seeding	
								Balsam Fir	Low	< 5 feet	Seeding	
Wild Red Raspberry	Medium	< 5 feet	Tall Shrub									
White Spruce	Low	< 5 feet	Seeding									
White Ash	Medium	Variable	Sapling									





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
45	6112 - Lowland Aspen	Poletimber Medium	20.9	71	1-50	N/A	<p>Very wet stand with low quality, poorly-stocked trees in the overstory. There are some areas with scattered clumps of trees with better stocking, but for the most part there are only scattered trees here and there in the overstory. Wet drainages run down both arms of the stand. The southeast part of the stand has standing water and only a few trees in the overstory. It looks like black ash used to be a big component of the overstory but it is now all dead and mostly blown over. A few white ash poletimber stems appear to still be hanging on. Trace of red pine in the overstory. Average ba/acre of the stand from 7 plots = 50 square feet. No management due to the wet soils.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		1	Log/XLog	17		Red Maple		Trace	Variable	Sapling	
White Spruce		3	Log/Pole	11		American Elm		Trace	>20 feet	Sapling	
Northern White Cedar		1	Log/Pole	11		Balsam Poplar		Low	Variable	Sapling	
Balsam Fir		10	Pole	7		Willow spp.		Trace	>20 feet	Tall Shrub	
Balsam Poplar		39	Pole/Log	9	71	Balsam Fir		Low	Variable	Sapling	
Red Maple		6	Pole/Log	8		Black Ash		Medium	Variable	Sapling	
Paper Birch		6	Pole/Log	8		Serviceberry (Juneberry)		Trace	Variable	Tall Shrub	
Quaking Aspen		34	Log/XLog	14	71	Tag Alder		High	10 - 20 feet	Tall Shrub	
						Black Cherry		Trace	Variable	Tall Shrub	
						Paper Birch		Trace	>20 feet	Sapling	
						White Spruce		Trace	Variable	Sapling	
46	320 - Upland Shrub	Nonstocked	11.0	0	Unspecified	429 - Mixed Upland Conifers	<p>Clearcut in 2017 in the sale Buzzels Spruce Plus (#53-005-17-01, Precision). Regeneration has not responded well at all, see regen survey results below. A thick layer of raspberry is present in most of the stand. Where there isn't raspberry, the grass and sedge have taken over. Invasive honeysuckle is also becoming established in areas. Very heavy deer use and browse in the stand. Most balsam seedlings are showing browse damage and look like small bonsai trees. Some browse was noted on red pine seedlings. A few small pockets of BAM and BTA saplings at the south end. Some small scattered pockets of wet ground but pretty rare overall in the stand. A large rock pile can be found in the middle part of the stand, closer to the west edge. Perhaps this area has some historical significance?</p> <p>Regen survey results from 6 1/100th acre circular plots, average height in parentheses. Balsam fir 417 TPA (6"), white spruce 33 TPA (1'), red pine 33 TPA (1'), balsam poplar 33 TPA (2.5').</p>				
Sub-Canopy Species		Density	Avg. Height	Size							
Red Pine		Trace	< 5 feet	Seeding							
Balsam Fir		Medium	< 5 feet	Seeding							
White Pine		Trace	>20 feet	Log							
White Spruce		Low	< 5 feet	Seeding							
smooth Tartarian Honeysuckl		Low	< 5 feet	Tall Shrub							
Balsam Poplar		Trace	Variable	Sapling							
Bigtooth Aspen		Trace	10 - 20 feet	Sapling							
Wild Red Raspberry		Full	< 5 feet	Tall Shrub							
Common Blackberry		Low	< 5 feet	Tall Shrub							
47	320 - Upland Shrub	Nonstocked	9.8	0	Unspecified	42380 - Non Pine Upland Conifer, Mixed Deciduous	<p>Formerly a white spruce plantation that was clearcut in 2017 in the sale Buzzels Spruce Plus (#53-005-17-01, Precision). Regeneration has not responded well in most places and tends to be clumpy, see regen survey results below. A thick layer of raspberry is present in many places along with some areas of lowland shrub in the middle part of the stand. Invasive honeysuckle is spreading throughout the stand. Heavy deer browse on most species except the spruce. Significant rutting damage in areas of the stand, particularly the northern edge. Classified as upland but the water table appears very close to the surface in this stand as there are numerous areas of lowland.</p> <p>Regen survey results from 7 1/100th acre plots: white spruce 129 TPA (1'), balsam poplar 100 TPA (4'), quaking aspen 500 TPA (3.5'), white ash 329 TPA (2.5', all from one plot).</p>				
Sub-Canopy Species		Density	Avg. Height	Size							
White Spruce		Low	< 5 feet	Seeding							
Balsam Poplar		Low	Variable	Sapling							
Quaking Aspen		Trace	Variable	Sapling							
Wild Red Raspberry		High	< 5 feet	Tall Shrub							
Common Blackberry		Low	< 5 feet	Tall Shrub							
White Pine		Trace	>20 feet	Log							
smooth Tartarian Honeysuckl		Medium	< 5 feet	Tall Shrub							
Tag Alder		Low	5 - 10 feet	Tall Shrub							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>48</b>	4130 - Aspen	Sapling Well	51.8	26	51-80	N/A	Developing aspen stand that is just starting to reach merchantability. Clearcut in 1996 in the sale Buzzels Southeast Aspen (#53-005-94, Crawford Forest Products). Regeneration came back well in most places although there are scattered open areas where browse made an impact. Beavers have also removed some aspen along the far west side which has resulted in areas of lower stocking. Aspen is dominant throughout but there are a few areas with some species diversity, particularly the narrow finger that extends to the southeast which is where most of the paper birch, maple, red oak, and white oak saplings are located. There are a few additional red and white oak saplings along the area that is adjacent to the north edge of stand 50 (C6). Trace of red pine and white spruce saplings. Some of the black cherry looks like it will become merchantable. Most of the smaller ash looks healthy as of now, but who knows how long that will last. The ground is a mix of upland and lowland throughout. Lowland areas do not appear to be overly wet.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Ironwood	1	Sapling	2		Tag Alder	Low		5 - 10 feet	Tall Shrub
Red Maple	2	Sapling/Pole	3		Balsam Fir	Medium		Variable	Sapling
Red Oak	1	Sapling	2		Black Ash	Medium		Variable	Sapling
Balsam Poplar	16	Sapling/Pole	4		Black Cherry	Low		Variable	Tall Shrub
Northern White Cedar	2	Log/Pole	11						
White Oak	1	Sapling	3						
Bigtooth Aspen	7	Pole/Sapling	5						
White Pine	4	Sapling/Pole	4						
Quaking Aspen	55	Sapling/Pole	4	26					
Balsam Fir	5	Sapling/Pole	3						
Black Cherry	2	Sapling	3						
Black Ash	2	Sapling	3						
Paper Birch	2	Sapling	2						
<b>49</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	9.9	72	111-140	N/A	Moderate to high quality mixed species stand. The west half of the stand is upland but transitions to lowland along the east edge, with a few areas of very wet, inoperable ground. Pit and mound topography throughout a lot of the stand. The southwest corner of the stand has a small pocket of red pine, there are a few more red pine scattered up and down the west stand edge. The cedar and black spruce component is mostly at the far northeast corner. A few large XL-sized aspen that are declining and are good wildlife trees. Trace of white pine and tamarack. Average ba/acre from 7 plots = 114 square feet. At current deer browse levels, I doubt we'd be able to regenerate the red maple and birch component to acceptable levels. Look at adjacent stand 46 for evidence of browse damage, even the fir are being browsed in that stand. Many of the maple stems are still small, look at management options when this becomes a sawlog stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Poplar	2	Pole/Log	9		Tag Alder	Trace		Variable	Tall Shrub
Red Maple	33	Pole/Log	8	72	Black Ash	Low		Variable	Sapling
Bigtooth Aspen	1	Log	11		Red Maple	Trace		Variable	Sapling
Red Pine	4	Log/Pole/XLog	13		Balsam Fir	High		Variable	Sapling
Black Spruce	3	Pole/Log	8						
Balsam Fir	24	Pole/Log	8						
Paper Birch	15	Pole/Log	8						
Quaking Aspen	16	Log/Pole/XLog	11						
<b>50</b>	6120 - Lowland Cedar	Poletimber Well	15.1	102	171-200	N/A	Cedar stand that is in decline in many areas of the interior of the stand. Healthier groves of cedar are still present along the perimeter of the stand. A stream flows northwest to southeast through this stand and is currently dammed at the west end. There is also an older beaver dam further downstream in stand 27 in Comp 24. These two combined events which have altered the hydrology in the area are likely responsible for the dying cedar. Did not look at the south or southwest sides of the stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	3	Log/Pole	12		Balsam Fir	High		Variable	Sapling
Balsam Poplar	3	Log/Pole	13		Black Ash	Low		Variable	Sapling
Quaking Aspen	4	Log/Pole	12		Tag Alder	Low		10 - 20 feet	Tall Shrub
Balsam Fir	8	Pole	5						
White Pine	1	XLog/Log	20						
Northern White Cedar	71	Pole/Log	8	102					
Black Spruce	10	Pole/Log	8						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																	
51	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	12.1	72	51-80	N/A	Very wet stand with some variability in it. The south running finger is the only area with somewhat drier ground and has mostly a cedar/aspens/fir mix. A wet draw runs from west to east through the stand, and stays closer to the northern stand boundary. Many areas of this draw are now non-forested as black ash, which used to be a large component of the stand, is all dead and mostly on the ground. Maple is most common at the northwest end of the stand, and some of it may be silver maple. Average ba/acre from 8 plots = 66 square feet. No management, too wet.																																																																																	
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52	6130 - Fir, Aspen, Maple	Poletimber Well	10.5	74	81-110	N/A	Mixed species stand that sits on ground of varying moisture levels. The middle part of the stand is on an elevated, upland knob. East of the knob grades down to lowland that becomes very wet as you get to the eastern stand edge. The western part of the stand seems to be a mix of upland and lowland. Cedar tends to be in clumps along the southern and western stand boundaries, although some individual trees are scattered throughout. A few small areas have a lot of fir blowdown. Some scattered large diameter (18"+) aspen that are serving well as cavity trees. BAM can be found mostly along the eastern edge where the ground is the wettest. Average ba/acre from 7 plots = 107 square feet. Management opportunities exist in the drier parts of the stand but available acreage would be small and would require going through private land to the north.																																																																																	
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53	4134 - Aspen, Spruce/Fir	Poletimber Well	36.9	52	81-110	N/A	Good quality aspen stand with a large component of fir. Some of the bigtooth aspen clones, which are more prevalent in the middle part of the stand, are closer to an A9. A significant amount of fir, especially in the west half of the stand, has blown over. A hardwood component is mixed in throughout but seems heaviest in the northeast 1/4 of the stand. White ash used to be found throughout the stand in moderate amounts but most are dead and on the ground except for a few smaller poletimber stems which appear to be hanging on. A couple of small openings are present just south of the middle of the stand (see 98 DOQ imagery). Trace of white pine (pole/log/xlog), elm (pole), and ironwood (pole). Average ba/acre from 11 plots = 103 square feet. Most of this stand is on an upland knob with slopes going down on all sides. There is a small seasonal drainage at the northeast corner of the stand but that is the only wet ground I saw in the stand. Potential stick nest in the stand, lots of hawk activity overhead while conducting inventory of the stand.																																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>54</b>	6112 - Lowland Aspen	Poletimber Poor	7.1	56	51-80	N/A	<p>Poorly-stocked stand with a thick understory of lowland shrubs in the northern 2/3rds of the stand. The southern 1/3rd has some clumps of A9 mixed in with a lot of fir. The aspen in this area is large and old. The remainder of the trees in the stand seem a bit younger. Not sure of the harvest history in this stand, the 98DOQ imagery shows that portions of this stand may have been cut with stand 48 to the west. Or perhaps this was formerly an open site that has gradually filled in with trees. Trace of white pine (log) and elm (pole). Average ba/acre from 6 plots = 65 square feet. This is mostly a wet stand with only minimal harvesting opportunities.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Spruce	10	Pole/Log	8		Green Ash	Low		Variable	Sapling
Balsam Fir	12	Pole	5		Balsam Poplar	Low		Variable	Sapling
Paper Birch	16	Pole/Log	8		Black Ash	Low		Variable	Sapling
Balsam Poplar	30	Pole/Log	8	56	Willow spp.	Trace		>20 feet	Tall Shrub
Quaking Aspen	27	Log/XLog	16		Balsam Fir	Low		Variable	Sapling
Northern White Cedar	5	Log/Pole	12		Paper Birch	Trace		>20 feet	Sapling
					Tag Alder	High		10 - 20 feet	Tall Shrub
					Ninebark	Trace		5 - 10 feet	Tall Shrub
					Smooth Tartarian Honeysuckle	Low		5 - 10 feet	Tall Shrub
					Grape Vine	Trace		Unspecified	Vine
<b>55</b>	6112 - Lowland Aspen	Sawtimber Medium	59.9	73	51-80	N/A		<p>Primarily a lowland stand that tends to alternate between clumps of trees and areas of thick lowland shrubs with minimal trees in the overstory. The majority of the ground is very wet but there are a few small areas of somewhat drier ground. Scattered blowdown in combination with the thick shrub layer make this a difficult stand to walk through. There appears to be 2 age classes of aspen in the stand, the older age class has some large diameter trees that are starting to decline. The younger age class is in the 7-12" diameter range and is apparently the result of some small winter deer cuts that took place in this stand in 1966. A few poletimber ash stems (green ash?) that still appear alive. Black ash regeneration becomes abundant at the far south end of the stand. Trace of elm, red oak, and white pine in the overstory. Average ba/acre from 15 plots = 67 square feet. Invasive honeysuckle is well-established at the north end of the stand and some areas along the west side. I found one large buckthorn stem closer to the northwest corner of the stand. Management opportunities are limited due to the wet ground in this stand but there may be a small segment in the south half that is suitable for harvest.</p>	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Red Maple	4	Pole/Log	8		Michigan Holly	Low	5 - 10 feet		Tall Shrub
White Spruce	8	Pole/Log	9		Balsam Fir	Medium	Variable		Sapling
Paper Birch	2	Pole/Log	8		Red Osier Dogwood	Trace	Variable		Tall Shrub
Black Spruce	1	Pole	8		Black Ash	Medium	Variable		Sapling
Balsam Poplar	11	Log/Pole	10		Serviceberry (Juneberry)	Trace	Variable		Tall Shrub
Northern White Cedar	2	Log/Pole	11		Smooth Tartarian Honeysuckle	Low	5 - 10 feet		Tall Shrub
Quaking Aspen	46	Log/Pole/XLog	11	73	Riverbank Grape	Trace	Unspecified		Vine
Balsam Fir	26	Pole/Sap/Log	7		White Spruce	Trace	Variable		Sapling
					American Highbush Cranberry	Trace	5 - 10 feet		Tall Shrub
					Balsam Poplar	Trace	Variable		Sapling
					Nannyberry	Low	5 - 10 feet		Tall Shrub
					Tag Alder	High	Variable	Tall Shrub	
					Black Cherry	Trace	Variable	Tall Shrub	
<b>56</b>	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	6.1	77	141-170	N/A	<p>Cedar dominated stand that is a mix of upland and lowland. Drier ground can be found along much of the west and south parts of the stand. The central part of the stand has an area of wet ground, and the north and east edges of the stand become wetter as they slope down to the adjacent E and P stands. Cedar is generally dominant in the north half of the stand and along the east side but composition shifts in the southwest portion of the stand and has more aspen, fir, and spruce. Trace of sugar maple. Average ba/acre from 7 plots = 147 square feet. Much of the ground in this stand is likely operable but no management should take place due to our inability to regenerate cedar. It looks like there was in fact some cedar regeneration adjacent to the road but it has been browsed to death.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	20	Pole/Log	8		Balsam Fir	Medium		Variable	Sapling
Red Maple	4	Log/Pole	11		Tag Alder	Trace		5 - 10 feet	Tall Shrub
Quaking Aspen	14	Log/Pole	12		Black Ash	Trace		Variable	Sapling
Northern White Cedar	53	Pole/Log	8	77					
White Spruce	5	Pole/Log/XLog	8						
Paper Birch	2	Pole/Log	9						
White Pine	2	Log/XLog	15						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**57** 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Medium 11.0 62 51-80 N/A

Lowland stand of varying quality and stocking. The middle part of the stand has areas of poor-stocking with a dense understory of black ash saplings. The far north/northwest part of the stand has mostly aspen, fir, and spruce. A vein of mostly cedar, fir, and spruce runs southwest to northeast through the central part of the stand, but closer to the east edge. Silver maple becomes dominant in the south half of the stand with some areas of better stocking. The far southern end of the stand has standing water and minimal tree coverage. Average ba/acre of the stand from 6 plots = 73 square feet. Very wet stand, no management possible or recommended.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	8	Log/Pole	10		Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	17	Pole/Log	8		Michigan Holly	Low	5 - 10 feet	Tall Shrub
Balsam Fir	12	Pole	6		Balsam Poplar	Trace	>20 feet	Sapling
Silver Maple	46	Log/Pole/XLog	12	62	White Spruce	Trace	Variable	Sapling
Quaking Aspen	15	Log	12		Balsam Fir	Low	Variable	Sapling

**58** 6120 - Lowland Cedar Poletimber Well 5.7 112 171-200 N/A

Densely stocked, healthy cedar stand. The stand is mostly lowland but not very wet. A thin strip of upland with mostly aspen, spruce, and fir is along the south stand edge bordering the road as well as along the east side next to the opening. Small area of blowdown in the northeast part of the stand. Old fire charred stumps can be found throughout the stand. Heavy deer use in the stand. Average ba/acre from 5 plots = 172 square feet. No management due to inability to regenerate cedar.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	2	Pole/Log	8		Smooth Tartarian Honeysuckle	Trace	5 - 10 feet	Tall Shrub
Hemlock	1	Log	12		Quaking Aspen	Trace	Variable	Sapling
Paper Birch	2	Pole/Log	9		Balsam Fir	Medium	>20 feet	Sapling
Quaking Aspen	10	Log/XLog	14					
Red Maple	1	Log/Pole	10					
Northern White Cedar	52	Pole/Log	8	112				
Balsam Fir	20	Pole/Sap/Log	7					
White Spruce	10	Pole/Log/XLog	9					
Bigtooth Aspen	2	Log/Pole	11					

**59** 6223 - Inundated Shrub Swamp Nonstocked 15.9 Unspecified No

Diverse lowland shrub stand with scattered trees both individually and in small clumps. The shrub component is very thick in areas. Only looked at the east half of this stand.

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	Low	Variable	Sapling
Black Spruce	Trace	>20 feet	Pole
Red Osier Dogwood	Trace	5 - 10 feet	Tall Shrub
Willow spp.	Low	Variable	Tall Shrub
Balsam Fir	Trace	>20 feet	Pole
Red Maple	Trace	Variable	Sapling
Silver Maple	Trace	>20 feet	Log
Balsam Fir	Trace	Variable	Sapling
Tamarack	Low	>20 feet	Pole
Tag Alder	High	Variable	Tall Shrub
Quaking Aspen	Trace	>20 feet	Log
Paper Birch	Trace	Variable	Sapling
Nannyberry	Low	Variable	Tall Shrub
Black Spruce	Trace	Variable	Sapling
Michigan Holly	Low	Variable	Tall Shrub
Black Ash	Low	Variable	Sapling
Paper Birch	Trace	>20 feet	Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
60	310 - Herbaceous Openland	Nonstocked	3.1		Unspecified	No	An opening that has been mowed in recent years but I'm unsure if it is maintained as a food plot.
61	42320 - Upland Spruce	Poletimber Well	6.9	88	81-110	N/A	Spruce pocket on slightly higher ground surrounded by low inundated swamp. The east end of the stand becomes wet lowland with poor quality cedar. Trace of paper birch. Average ba/acre from 5 plots = 108 square feet. No access for management.
62	4319 - Mixed Upland Forest	Poletimber Well	9.1	46	81-110	N/A	Mixed aspen-spruce-fir stand. The aspen is generally poor quality and not well-stocked throughout. A few clumps of nearly pure spruce and fir, especially along the east/northeast edge of the stand, where beavers removed most of the aspen according to the previous stand examiner. A few scattered red oak (sap/pole/log) in the east half of the stand. Trace of red pine. Average ba/acre from 8 plots = 90 square feet. Flat terrain and most of the ground appears to be upland although there may be some seasonally wet areas. Very heavy deer use, a browse line is present on most of the small fir in the stand. A small maintained trail heads from the interior opening (#64) northeast through the stand.
63	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	14.6	80	81-110	N/A	Diverse stand that is a mix of upland and lowland somewhat resembling a ridge/swale complex. In general, the south half of the stand is on very wet ground that extends east/west the length of the stand. The north half of the stand has some areas of drier ground at the east and west stands. Some pockets of nice maple at the east end of the stand. My winter ID between red and silver maple is not good but I think both species are present in the stand. Aspen and BAM become more common in the west half of the stand. Trace of ash poletimber that is still alive, it looks like green ash to me. Black ash used to be a large component of the stand but it is now all dead. Trace of white spruce. Average ba/acre from 6 plots = 97 square feet. No management possible. Wet areas in this stand drain to the east and eventually head south through stand 66, joining with the Black River.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
64	310 - Herbaceous Openland	Nonstocked	0.9		Unspecified	No	Natural opening that isn't managed as a food plot. A single clump of 2 red oak poletimber trees near the north end. A large deer blind is just inside the wood-line on the southwest side of the opening.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Little Bluestem	Medium	Unspecified	Non-Wood					
								Blackberry/Raspberry	Low	< 5 feet	Tall Shrub					
								White Spruce	Trace	Variable	Sapling					
								Bracken Fern	Medium	Unspecified	Non-Wood					
								Red Oak	Trace	>20 feet	Pole					
								Mixed Grasses	High	Unspecified	Non-Wood					
								Balsam Fir	Trace	Variable	Pole					
								Spotted Knapweed	Medium	Unspecified	Non-Wood					
Balsam Fir	Low	Variable	Sapling													
65	6111 - Lowland Balsam Poplar	Sapling Medium	10.8	5	Immature	N/A	This was formerly a white spruce plantation that was cut in 2017 in the sale Buzzels Spruce Plus (#53-005-17, Precision). BAM has regenerated moderately well in places, although there are still places lacking regeneration, particularly the northern end of the stand near the road. No sign of spruce regeneration. Some scattered large diameter BAM and quaking aspen were left uncut. Trace of residual white pine as well. Invasive honeysuckle has become well-established throughout the stand. Ground is not overly wet, toss-up between upland or lowland, but the species mix suggests it is more of a lowland type. Significant rutting damage on several old skid trails, visible on recent leaf-off imagery. Heavy deer use throughout.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Black Cherry	2	Pole/Log	8		Smooth Tartarian Honeysuckle	High	5 - 10 feet	Tall Shrub
								Balsam Poplar	81	Sapling	1	5	Black Cherry	Trace	5 - 10 feet	Tall Shrub
								Quaking Aspen	10	Sapling	1		Tag Alder	Low	5 - 10 feet	Tall Shrub
								Quaking Aspen	2	Log	14		Wild Red Raspberry	Medium	< 5 feet	Tall Shrub
								Balsam Poplar	5	Log	13					
66	429 - Mixed Upland Conifers	Poletimber Well	20.9	73	81-110	N/A	Diverse stand that is a mix of upland and lowland. In general, the east half of the stand has more of the maple, pine, and birch. The west half is primarily aspen, spruce, and fir with only minor amounts of the other listed species. A variety of diameters are present on most tree species, including some very large aspen (20"+) that have a lot of rot and are starting to senesce. A few wet drainages pass south through this stand, draining into the adjacent E stand. The largest of these drainages, in the middle narrow part of the stand, is in somewhat of a defined channel. Decent size (~1/4 acre) area of blowdown in the west half of the stand that has filled in with quaking aspen and fir saplings, raspberry, and some invasive honeysuckle. Trace of silver maple, balsam poplar, red pine, basswood, and red oak in the overstory. Average ba/acre from 12 plots = 100 square feet.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Northern White Cedar	5	Pole/Log	8		Tag Alder	Trace	10 - 20 feet	Tall Shrub
								Balsam Fir	37	Pole/Log	8	73	White Spruce	Low	Variable	Sapling
								White Spruce	16	Pole/Log/XLog	9		Quaking Aspen	Trace	>20 feet	Sapling
								Quaking Aspen	28	Log/Pole/XLog	12		Black Ash	Trace	Variable	Sapling
								White Pine	3	Log/XLog	15		Balsam Fir	High	Variable	Sapling
								Paper Birch	5	Pole/Log	8		Smooth Tartarian Honeysuckle	Trace	5 - 10 feet	Tall Shrub
								Red Maple	6	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
67	6112 - Lowland Aspen	Sapling Well	7.9	15	Immature	N/A	Developing stand that is dominated by aspen. Diameters on the aspen tend to vary throughout the stand. My ash ID is not great but there looks to be a mix of both green and black ash in the stand, most smaller stems still appear healthy. Clearcut in 2007 in the sale Leftover Aspen (#53-001-04, Socha Forestry). A few large hawthorn and serviceberry at the north edge, most of the invasive honeysuckle is along this edge as well. Most of the stand is on lowland ground but not overly wet. Some areas with heavy deer browse on the ash understory.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Poplar	25	Sapling/Pole	3		Tag Alder	Medium		Variable	Tall Shrub
Quaking Aspen	57	Sapling	3	15	Black Cherry	Trace		Variable	Tall Shrub
Balsam Fir	1	Sapling/Pole	3		Black Ash	Medium		5 - 10 feet	Sapling
Black Cherry	2	Sapling	3		Smooth Tartarian Honeysuckle	Trace		5 - 10 feet	Tall Shrub
Green Ash	5	Sapling	2		Hawthorn (spp.)	Trace		Variable	Tall Shrub
Black Ash	10	Sapling	2		Balsam Fir	Low		5 - 10 feet	Sapling
					White Spruce	Trace		Variable	Sapling
					Green Ash	Low		5 - 10 feet	Sapling
					Serviceberry (Juneberry)	Trace		Variable	Tall Shrub
68	4130 - Aspen	Poletimber Well	24.4	32	51-80	N/A		Fully-stocked stand of aspen. Clearcut in 1990-91 in the sale Abies Babies Aspen (#53-063-90, Moran Forest Products). Aspen diameters tend to vary significantly, some areas are still sub-merchantable while others are in the 6-7" diameter range. A few scattered larger fir mixed in throughout. The stand is lowland at the north and south ends of the stand but becomes drier in the middle. Trace of elm and paper birch poletimber. Average ba/acre from 7 plots = 77 square feet. Trace of autumn olive and invasive honeysuckle in the south half of the stand. This stand likely needs 2 more entries before ready for a harvest.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
Balsam Poplar	9	Pole/Sapling	6		Balsam Fir	Medium	Variable		Sapling
Red Maple	2	Pole/Sapling	5		Tag Alder	Low	Variable		Tall Shrub
Quaking Aspen	75	Pole/Sapling	5	32	Black Ash	Medium	Variable		Sapling
Balsam Fir	12	Pole/Sap/Log	5		Grape Vine	Trace	Unspecified		Vine
White Spruce	2	Pole/Sapling	6		Black Cherry	Low	Variable		Tall Shrub
69	6113 - Lowland Maple	Sawtimber Well	24.6	100	81-110	N/A	Black River floodplain forest. Large parts of this stand are currently underwater but all of the trees appear healthy. Winter ID of red maple vs silver maple is difficult for me but I believe the majority of the trees in this stand are silver maple. Diameters tend to vary throughout the stand, the far west side of the stand is dominated by smaller poletimber and saplings. Almost all trees in the stand are multi-stemmed stump sprouts, there are hardly any single stems. Black ash used to be a small component of the stand but they are now all dead. Trace of elm. Average ba/acre from 5 plots = 84 square feet.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	22	Log/Pole	12	100	Reed Canary Grass	Medium		Unspecified	Non-Wood
Basswood	3	Log	14		Tag Alder	Low		10 - 20 feet	Tall Shrub
Silver Maple	75	Log/Pole/XLog	14	100	Black Ash	Low		Variable	Sapling
					Red Osier Dogwood	Trace	5 - 10 feet	Tall Shrub	
70	122 - Road/Parking Lot	Nonstocked	3.2	0	Unspecified	No	Black River Road		
71	6112 - Lowland Aspen	Sawtimber Medium	18.8	71	51-80	N/A	Sparse overstory in the north half of the stand with some very wet ground. As you move south closer to the river there are some upland areas, especially at the southwest corner. Stocking is much better in the drier areas, resembling an A9 in places. A few very large aspen are scattered throughout the stand. You could potentially split the two halves into separate stands next entry. A dense understory of ash is present throughout much of the stand. Most of it looks like black ash but there may be some green ash mixed in too. Also, some of the overstory red maple may be silver maple, difficult to ID the difference during the winter. The majority of conifers tend to be around the perimeter of the stand (see leaf-off imagery). Average ba/acre from 5 plots = 66 square feet. No management due to wet ground and proximity to the Black River.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	20	Pole/Log	8		Balsam Fir	Low		Variable	Sapling
Black Cherry	1	Pole	8		Tag Alder	Low		Variable	Tall Shrub
Black Spruce	1	Pole	8		Black Cherry	Low		Variable	Tall Shrub
American Elm	1	Pole/Log	8		Nannyberry	Low		5 - 10 feet	Tall Shrub
White Spruce	5	Log/XLog/Pole	14		Serviceberry (Juneberry)	Trace		Variable	Tall Shrub
Red Maple	17	Log/Pole	12		Black Ash	Full		Variable	Sapling
Quaking Aspen	48	Log/XLog/Pole	14	71					
Balsam Poplar	5	Log/Pole	10						
Paper Birch	2	Pole/Log	9						





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																												
<b>72</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	37.0	41	111-140	N/A	<p>Diverse, multi-aged stand that sits on a mix of wet and dry ground. Apparently portions of this stand were harvested in 1981 but the sale was never completed. As a result there are a few pockets of younger aspen and fir, which seem to be concentrated more in the middle part of the stand. Large diameter pine are scattered throughout and includes legacy size trees of both red and white pine. A few of the white pine are close to 40" DBH. Hemlock and cedar tend to occur in small clumps throughout. The north half of the stand is mostly wet, with a few cedar swales with standing water in places. The south half has some drier ground but is difficult to parse out because of the undulating terrain. A quick drop of only a few feet or so results in wet ground meaning the water table must be very close to the surface in this stand. Dense stocking of fir in most places. Lots of coarse woody debris in areas of the stand, mostly from fir, which may allow for some cedar and hemlock regeneration in the future. The far south end of the stand has somewhat of a different character as it is mostly large diameter pine with some cherry and spruce mixed in, with fir notably absent. Trace of elm throughout. White and black ash used to be components of the overstory, mostly at the far southern end, but are now all dead. Average ba/acre from 11 plots = 116 square feet. Meets uneven-aged criteria based on our guidelines; age class that originated from the harvest in 1981, the sawlog-sized maple/spruce/age class that is 81 years old, and the relict red and white pine that is likely over 100 years old. Unique stand that should be left alone and it would be difficult to treat anyways due to the highly variable mix of wet ground throughout.</p>																																																																												
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<b>73</b>	429 - Mixed Upland Conifers	Sawtimber Well	5.5	72	111-140	N/A	<p>Small white pine and spruce dominated stand adjacent to the Black River. Most of the ground is upland although there are a few areas of wet ground in the middle and southern parts of the stand that have lower stocking and a lot of ash in the understory. Average ba/acre from 5 plots = 116 square feet. No management due to the proximity to the river. A small road accesses parts of the stand closer to the river and there are a few small open areas that look like camping spots. The invasive honeysuckle can be found near these open areas.</p>																																																																												
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<b>74</b>	4319 - Mixed Upland Forest	Poletimber Well	3.8	60	51-80	N/A	<p>Hodge-podge of a stand. The south half has a mix of aspen, fir, white pine, and spruce. The middle part of the stand has lots of blowdown with a sparse overstory and a thick layer of young balsam fir. The north end has a small inclusion of sugar maple. Some nice pockets of younger paper birch are present along the east side of the stand adjacent to the opening. Trace of beech in the overstory, and one 8" yellow birch along the road. Average ba/acre from 4 plots = 75 square feet. Most of the stand sits on a gradual west-facing slope. This stand borders a small stream to the west so I would not recommend any even-aged management. Let the stand progress naturally and it will likely convert to a fir/spruce/white pine stand.</p>																																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
75	4136 - Aspen, Mixed Conifer	Poletimber Well	2.7	30	111-140	N/A	Stand clearcut in 1992 leaving residual hemlock and cedar, most of which are at the north and south ends. Aspen regenerated well but diameters vary considerably. Bigtooth aspen is larger in diameter and mostly in an upland knob in the center of the stand. Wetter ground is present along the north and south edges and is where more of the quaking aspen is located, and is barely merchantable in some areas. A few small clumps of nice paper birch regen along the east side. Average ba/acre from 3 plots = 127 square feet. New beaver activity along the east and north stand edges.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Hemlock	4	Log/XLog	15		Balsam Fir	High		Variable	Sapling
Northern White Cedar	2	Pole/Log	8		Red Maple	Low		Variable	Sapling
Bigtooth Aspen	27	Pole	7		White Spruce	Trace		Variable	Sapling
Balsam Fir	15	Pole/Sapling	5		Black Cherry	Trace		Variable	Tall Shrub
Quaking Aspen	47	Pole/Sapling	5	30	Paper Birch	Trace		>20 feet	Sapling
White Spruce	1	Pole/Sapling	5		Black Ash	Low		Variable	Sapling
Paper Birch	4	Pole/Sapling	5		Tag Alder	Trace		10 - 20 feet	Tall Shrub
76	500 - Water	Nonstocked	16.4	0	Unspecified	No		Black River	
77	6113 - Lowland Maple	Sawtimber Poor	4.4	80	1-50	N/A	Very wet stand with scattered maple. Winter ID of red maple vs silver maple is difficult but most of these look like silver maple to me. Black ash poletimber used to be dominant in the stand but it is now all dead from EAB. Thick shrub layer in many places. Some clumps of a merchantable willow species (4-6" DBH), not sure which species. Average ba/acre from 3 plots = 27 square feet. No management possible. Standing water throughout the stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Silver Maple	76	Log/Pole	12	80	Willow spp.	Low		>20 feet	Tall Shrub
American Elm	2	Pole	8		Michigan Holly	Medium		5 - 10 feet	Tall Shrub
Balsam Poplar	2	Pole	7		Black Ash	Medium		Variable	Sapling
Red Maple	20	Pole/Log	8		Tag Alder	Medium		Variable	Tall Shrub
78	330 - Low-Density Trees	Nonstocked	1.9		Unspecified	No	Semi-open areas at the east and west ends of this stand. The east end formerly had some balsam poplar poletimber in it but beavers removed them several years ago. The middle part of the stand is primarily conifers of varying sizes. This could likely be called a forested stand next time it is visited for inventory. Not sure of the history of this stand but it looks like there may have been structures in this area long ago. A few chairs and other items scattered throughout the stand as this appears to be a heavily used hunting spot.		
Sub-Canopy Species	Density	Avg. Height	Size						
Sedges	Medium	Unspecified	Non-Wood						
White Spruce	Trace	Variable	Sapling						
White Pine	Trace	Variable	Sapling						
White Spruce	Trace	>20 feet	Pole						
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub						
White Ash	Low	Variable	Sapling						
Balsam Poplar	Low	Variable	Sapling						
Black Ash	Low	Variable	Sapling						
Mixed Grasses	High	Unspecified	Non-Wood						
Black Cherry	Low	Variable	Tall Shrub						
Balsam Fir	Low	>20 feet	Pole						
Red Pine	Low	>20 feet	Log						
Autumn Olive	Low	5 - 10 feet	Tall Shrub						
Balsam Fir	Medium	Variable	Sapling						
Tag Alder	Low	10 - 20 feet	Tall Shrub						
Balsam Poplar	Low	>20 feet	Pole						
White Pine	Trace	>20 feet	Log						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>79</b>	4130 - Aspen	Poletimber Well	7.9	48	81-110	N/A	Moderate quality aspen stand sitting on a south/southwest facing slope. Site quality is best in the north/northeast parts of the stand (upper slope) and is where more of the bigtooth aspen is located along with the hardwood component. The south and west edges of the stand become wet as the stand transitions into lowland, and aspen is not well-stocked in several portions of this area. A few shallow ravines angle down towards the lowland, one holds water as a seasonal drainage (see site conditions layer). Some nice clumps of serviceberry scattered throughout. Trace of cedar, balsam poplar, white pine, black cherry, and white spruce in the overstory. Average ba/acre from 5 plots = 74 square feet.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	3	Pole/Sapling	6		Ironwood	Medium		>20 feet	Sapling
Red Maple	5	Pole/Log	8		Balsam Fir	Low		Variable	Sapling
Paper Birch	1	Pole	6		Serviceberry (Juneberry)	Trace		Variable	Tall Shrub
White Ash	2	Pole	6		White Ash	Low		Variable	Sapling
Quaking Aspen	42	Pole/Log	8	48	Hawthorn (spp.)	Trace		5 - 10 feet	Tall Shrub
Bigtooth Aspen	33	Log/Pole	10	48	Red Maple	Low		Variable	Sapling
Balsam Fir	13	Pole/Log	8		Sugar Maple	Low		>20 feet	Sapling
Ironwood	1	Pole	5		Smooth Tartarian Honeysuckle	Trace		< 5 feet	Tall Shrub
					Beech	Trace		Variable	Sapling
					Black Cherry	Trace		>20 feet	Tall Shrub
<b>80</b>	6112 - Lowland Aspen	Sawtimber Poor	10.5	48	1-50	N/A	Poorly-stocked stand that sits on very wet soils, most of which is a drainage that flows to the southeast. I did not see a defined stream channel but it's possible it forms a stream further south in Compartment 24. Fir and spruce is mostly in a single patch in the narrow part of the stand. Red-osier dogwood is abundant throughout, browse has held most below 5 feet, but there are a few patches that have made it past the browse level. Trace of cedar. Average ba/acre from 4 plots = 28 square feet. This stand was apparently cut at the same time as adjacent aspen stands to the east and west. Did not visit the north or south ends of the stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
American Elm	1	Pole	6		White Ash	Low		Variable	Sapling
Balsam Fir	6	Pole/Log	8		Paper Birch	Trace		>20 feet	Sapling
Balsam Poplar	39	Pole/Log	9		American Elm	Trace		>20 feet	Sapling
White Spruce	3	Pole	7		Balsam Poplar	Low		Variable	Sapling
Quaking Aspen	49	Log/Pole	10	48	Red Osier Dogwood	Medium		< 5 feet	Tall Shrub
Paper Birch	2	Pole	6		Smooth Tartarian Honeysuckle	Low		< 5 feet	Tall Shrub
					Balsam Fir	Trace	Variable	Sapling	
<b>81</b>	6129 - Mixed Coniferous Lowland Forest	Sawtimber Medium	13.9	84	81-110	N/A	John St. Pierre inventory and comments from 2017 when this stand was a part of Atlanta Comp 118. Stand has several personalities. Zig-zaged through, south to north. Small sub-acre opening and most conifer large log or xlog in south 1/3rd. Undulates up/down throughout the stand, causing DBH decrease & sap increase. Center is unique but small clump of legacy and large log pine/hemlock. Saps extend out from Stand 82 into this stand. Northern most area is another legacy and large log mix of pine, hemlock, spruce, cedar, and others. Variable DBH's on east boundary. Log sizes don't occupy canopy across entire stand, saying canopy closure is on high side of 50-75 as a whole.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	13	XLog/Log	22	125	Paper Birch	Low		Variable	Sapling
White Pine	15	XLog/Log/Pole	22		Tag Alder	Medium		5 - 10 feet	Tall Shrub
Paper Birch	3	Log/Pole	12		White Spruce	Low		Variable	Sapling
Northern White Cedar	13	Log/Pole/XLog	10		Balsam Fir	High		Variable	Sapling
Quaking Aspen	5	XLog/Log/Pole	18		Black Ash	Medium		Variable	Sapling
Hemlock	12	Log/XLog/Pole	15						
Silver Maple	1	Log/Pole/XLog	15						
Bigtooth Aspen	5	XLog/Log/Pole	18						
White Spruce	12	Log/XLog/Pole	16						
Red Maple	3	Log/Pole/XLog	12						
Balsam Fir	18	Pole/Sap/Log	7	84					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
<b>82</b>	6123 - Lowland Fir	Sapling Well	3.3	46	81-110	N/A	John St. Pierre inventory and comments from 2017 when this stand was a part of Atlanta Comp 118. Lowland conifer dominated sapling pocket. Unsure if the result of past harvest or excessive low/wet conditions. Found 70's era wax paper comp map with this area as a W9 and Rx'ed with red horizontal lines. A few interior and perimeter log sizes. OPIC - FMD: TRASH DUMPING ALONG TRAIL.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		4	Sapling/Pole	4		Tag Alder		Medium	5 - 10 feet	Tall Shrub	
Black Spruce		3	Sapling/Pole	3							
Northern White Cedar		3	Pole	7							
White Spruce		5	Sapling/Pole	3							
White Pine		1	XLog/Log	20							
Hemlock		1	Log/XLog	16							
Red Maple		3	Sapling	2							
Paper Birch		2	Sapling/Pole	3							
Balsam Fir		78	Sapling/Pole	3	46						
<b>83</b>	6113 - Lowland Maple	Sawtimber Poor	11.4	91	1-50	N/A		John St. Pierre inventory and comments from 2017 when this stand was a part of Atlanta Comp 118. Very similar if not same as Stand 84 to north. Black River flood plain mix of silver/red maple. Variable sizes from pole in areas to concentrated log in others. Observed from east & west edges, flooded any direction I came at it from. Vast blow-down/non-forested areas, observed and on imagery. Low canopy closure in the locations I was observing from.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
White Spruce		3	Log/Pole	10		American Elm			Trace	Variable	Sapling
Balsam Poplar		3	Log/Pole	13		Silver Maple			Low	Variable	Sapling
Quaking Aspen		3	Log/Pole	12		Black Ash			Medium	Variable	Sapling
Red Maple		42	Log/Pole/XLog	14	91	Tag Alder			Medium	5 - 10 feet	Tall Shrub
Balsam Fir		3	Pole/Sap/Log	6		Red Maple			Low	Variable	Sapling
Black Ash		1	Pole/Log	8							
Silver Maple		41	Log/Pole/XLog	14	123						
Northern White Cedar		4	Pole/Log	8							
<b>84</b>	6113 - Lowland Maple	Sawtimber Medium	22.2	70	51-80	N/A	2022- Had plans to look at this stand but it is currently completely flooded. It was frozen over but not enough, fell through the ice several times then gave up. Used JSPs data from 2017.  2017 inventory - Had grand plans of seeing all.. Area was flooded from recent rain & full of dead ash blowdown. Ash formally a large overstory component. Silver and Red maple variable in size and age. Some VERY LARGE maple xlogs present (cored xlog Silv.Map@ ~118yrs ). Stand 9, south of Milligan Hwy, is the same type of river corridor stand. Imagery shows lowstock/non-forested areas, reduced can.closer to 50-75.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Poplar		4	Log/Pole	13		Black Ash		High	Variable	Sapling	
Silver Maple		40	Log/Pole/XLog	14	123	Red Maple		Low	Variable	Sapling	
Northern White Cedar		6	Pole/Log	8		Tag Alder		Medium	5 - 10 feet	Tall Shrub	
White Spruce		5	Log/Pole	10		Silver Maple		Low	Variable	Sapling	
Black Ash		1	Pole/Log	8		Honeysuckle (spp.)		Trace	5 - 10 feet	Tall Shrub	
Basswood		3	Pole/Log	9							
Red Maple		41	Log/Pole/XLog	15	70						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
<b>85</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	3.5	48	51-80	N/A	This stand was cut at the same time as adjacent stand 79 but regenerated back to more of a hardwood mix. Some patches of nice sugar maple and paper birch. Most of the larger ash appears dead but there are still several poletimber and sapling stems that appear to be alive. Average ba/acre from 3 plots = 97 square feet. Let the stand mature and manage for hardwoods.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		1	Log/XLog	15		Paper Birch		Trace	>20 feet	Sapling	
Ironwood		10	Pole/Sapling	5		Black Cherry		Trace	Variable	Tall Shrub	
White Ash		8	Pole/Sapling	6		Sugar Maple		Medium	>20 feet	Sapling	
Paper Birch		12	Pole/Sapling	6		White Ash		Medium	>20 feet	Sapling	
Red Maple		2	Pole/Log	8		Ironwood		Medium	>20 feet	Sapling	
Quaking Aspen		28	Pole/Log	8	48						
Black Cherry		1	Pole	6							
Bigtooth Aspen		7	Pole/Log	8	48						
Sugar Maple		31	Pole/Sap/Log	5	48						
<b>86</b>	42200 - Natural White Pine	Poletimber Medium	2.7	37	51-80	N/A		Scrubby, open-grown white pine for the most part in various size classes. There are a few wolfy XL-sized white pine which likely provided the seed source for the existing stand. A small clump of balsam poplar can be found at the northeast corner. A thick understory of invasive honeysuckle can be found in the east half of the stand. The west half of the stand has more of an open understory with lots of blackberry. Trace of red oak poletimber at the southeast end. Average ba/acre from 5 plots = 78 square feet.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Balsam Poplar		16	Pole/Log	9		Common Blackberry			Medium	< 5 feet	Tall Shrub
Balsam Fir		8	Pole/Sap/Log	6		Smooth Tartarian Honeysuckle			Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		13	Log/Pole	10		Balsam Fir			Low	Variable	Sapling
White Pine		60	Pole/Sap/Log	6	37	Balsam Poplar			Trace	>20 feet	Sapling
White Spruce		2	Pole/Log	8		Black Cherry			Low	Variable	Tall Shrub
Red Pine		1	Pole	8		White Pine			Medium	Variable	Sapling
						Quaking Aspen			Trace	>20 feet	Sapling
<b>87</b>	3302 - Low Density Conifer Trees	Nonstocked	0.6	0	Unspecified	No	Small opening that is filling in with conifers along the edges. This looks like it was an old landing. Old ruts are still evident both on the ground and on imagery. The ground may be seasonally wet.				
Sub-Canopy Species		Density	Avg. Height	Size							
White Spruce		Trace	>20 feet	Pole							
Autumn Olive		Trace	5 - 10 feet	Tall Shrub							
Balsam Poplar		Trace	5 - 10 feet	Sapling							
Red Pine		Trace	>20 feet	Pole							
Tag Alder		Trace	10 - 20 feet	Tall Shrub							
Balsam Fir		Trace	>20 feet	Pole							
White Pine		Medium	Variable	Sapling							
Balsam Fir		Trace	< 5 feet	Seeding							
Balsam Fir		Low	Variable	Sapling							
White Spruce		Trace	Variable	Sapling							
White Pine		Medium	>20 feet	Pole							
White Spruce		Trace	< 5 feet	Seeding							



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

**88**      429 - Mixed Upland Conifers      Poletimber Well      4.0      56      141-170      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	1	Pole	7		Serviceberry (Juneberry)	Trace	>20 feet	Tall Shrub
Red Maple	2	Pole/Log	8		Black Cherry	Trace	>20 feet	Tall Shrub
Paper Birch	1	Pole	8		Pin Cherry	Trace	>20 feet	Tall Shrub
Balsam Fir	3	Pole	7		Tag Alder	Low	10 - 20 feet	Tall Shrub
White Pine	47	Log/Pole/XLog	11	56	Balsam Fir	Low	Variable	Sapling
Quaking Aspen	2	Pole/Log	9		Black Ash	Trace	Variable	Sapling
White Spruce	39	Pole/Log	8		Red Maple	Trace	Variable	Sapling
Black Cherry	5	Pole/Log	8					

Small stand of planted spruce and white pine. The white pine is dominant in the south half of the stand while the spruce is dominant in the north. A few wet areas are present in the stand and they were trenched, but not much is growing in them other than alder and some saplings. Surprisingly there are some nice black cherry stems in the stand. Average ba/acre of the stand from 5 plots = 144 square feet. Isolated, hard to get to stand that is surrounded by wet ground to the west and private farmland to the east. No management possibilities at this time.

**89**      4119 - Mixed Northern Hardwoods      Sawtimber Medium      4.9      89      51-80      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	5	Pole/Log	9		White Ash	Trace	Variable	Sapling
Balsam Fir	5	Pole	6		Beech	Low	Variable	Sapling
Beech	7	Log/XLog	14		Sugar Maple	Low	Variable	Sapling
Ironwood	2	Pole	6		Smooth Tartarian Honeysuckle	Trace	5 - 10 feet	Tall Shrub
Basswood	9	Log/XLog	13		Ironwood	Low	Variable	Sapling
Black Cherry	1	Pole	8		Balsam Fir	Low	Variable	Sapling
Sugar Maple	57	Log/XLog/Pole	14	89				
Quaking Aspen	14	Pole/Log/XLog	8	89				

Clumps of open-grown hardwoods with a scattered second age class of younger aspen and hardwoods. I'm guessing this stand was cut at the same time as stand 17 to the east but all the hardwoods were left. A few patches of nice sugar maple regeneration but not common throughout. Some areas of the understory are relatively barren. A couple of very large aspen are present at the south end. Trace of invasive honeysuckle in the south half. Average ba/acre from 4 plots = 73 square feet.

**90**      42200 - Natural White Pine      Poletimber Well      2.2      44      81-110      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	2	Pole/Sapling	5		Smooth Tartarian Honeysuckle	Low	5 - 10 feet	Tall Shrub
Paper Birch	5	Pole/Sapling	6		White Ash	Low	Variable	Sapling
White Pine	89	Pole/Log/XLog	8	44	Balsam Poplar	Trace	>20 feet	Sapling
Jack Pine	1	Pole	6		White Pine	Medium	>20 feet	Sapling
White Ash	1	Pole	5		Pin Cherry	Low	Variable	Tall Shrub
Black Cherry	2	Pole/Log	8		Wild Red Raspberry	Medium	< 5 feet	Tall Shrub
					Paper Birch	Low	>20 feet	Sapling
					Black Cherry	Low	Variable	Tall Shrub

Small stand of white pine. Dominated by poletimber but a variety of sizes are present, diameters seem to get larger as you move east in the stand. A few white ash that are alive. Trace of beech poletimber. Average ba/acre from 3 plots = 93 square feet. Invasive honeysuckle scattered throughout. The far north end has a small pocket of wet ground.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
<b>91</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	4.4	52	111-140	N/A	Mixed species stand sitting on wet ground. Portions of the west edge of the stand may have been cut at the same time as adjacent stand 53 as there is a younger age class of aspen present. However, the remainder of the stand doesn't look like it has been cut as there are scattered large diameter aspen throughout. Cedar is scattered throughout, mostly in clumps, although a few individual stems are present. Trace of elm and tamarack in the overstory. Average ba/acre from 4 plots = 122 square feet. Most of this stand is on ground that is too wet to harvest. No management recommended.																																																									
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<b>92</b>	122 - Road/Parking Lot	Nonstocked	6.3		Unspecified	No	Milligan Highway																																																									
<b>93</b>	6223 - Inundated Shrub Swamp	Nonstocked	8.8		Unspecified	No	Dense stand of mixed lowland shrubs. Sparsely scattered trees throughout. Only looked at the east half of the stand. From imagery it looks like there are more trees in the west half.																																																									
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<b>94</b>	42330 - Upland Fir	Poletimber Well	1.5	45	81-110	N/A	Fir-dominated stand with a lot of small diameters. Stand sits on an east-facing side-slope. A few scattered cedar, more towards the east end. An old red line meanders through the south half of the stand, maybe this stand was meant to be cut at the same time as stand 18 to the south but never was for some reason? Trace of basswood poletimber. Small acreage for management, just leave alone for now.																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
<b>95</b>	4319 - Mixed Upland Forest	Poletimber Well	3.2	60	51-80	N/A	Variable stand. Most of the north half falls in a wet drainage and is where most of the birch and aspen is located. The south half is mostly a mix of fir, spruce, and white pine. Sugar maple is only found at the northwest corner of the stand. Invasive honeysuckle becomes thick at the south end of the stand. Trace of cedar in the wet drainage. Average ba/acre from 3 plots = 67 square feet. No management in the wet areas.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		12	Pole	7		White Spruce		Trace	Variable	Sapling	
White Spruce		10	Log/Pole	11		Balsam Fir		Medium	Variable	Sapling	
Sugar Maple		6	Log/Pole	12		Paper Birch		Trace	>20 feet	Sapling	
Quaking Aspen		29	Log/Pole	10	60	Tag Alder		Low	10 - 20 feet	Tall Shrub	
Balsam Poplar		5	Pole/Log	8		Smooth Tartarian Honeysuckle		Low	5 - 10 feet	Tall Shrub	
White Pine		10	Pole/Log/XLog	9		Red Maple		Trace	>20 feet	Sapling	
Balsam Fir		28	Pole/Log	8							
<b>96</b>	429 - Mixed Upland Conifers	Poletimber Well	4.5	68	141-170	N/A		Two-aged stand of older white pine with a younger age class of aspen and fir. It looks like the red and white pine were left in this stand when it was cut with adjacent stand 38. White pine is most prevalent in the middle and south parts of the stand with some areas of dense stocking. Aspen is most common around the perimeter of the stand. Trace of paper birch and red maple. Average ba/acre from 3 plots = 153 square feet. A wet drainage starts in stand 38 just outside the east/northeast boundary of this stand and cuts west through the southern edge of this stand in a small ravine, eventually dumping into stand 37 to the southwest.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Balsam Fir		24	Pole/Sap/Log	6		Tag Alder			Trace	10 - 20 feet	Tall Shrub
Quaking Aspen		24	Pole/Sapling	5	46	White Spruce			Trace	Variable	Sapling
White Spruce		5	Pole/Log	8		White Pine			Trace	>20 feet	Sapling
White Pine		45	Pole/Log/XLog	9	68	Balsam Fir			Medium	Variable	Sapling
Red Pine		2	Log	13							
<b>97</b>	42340 - Upland Spruce/Fir	Poletimber Well	2.9	73	81-110	N/A	Small little upland island stand surrounded by wetter stands. There is some wetter ground along the edges and in the narrow finger that connects the two "bubbles" of the stand. A couple of real large aspen (20"+) that are starting to senesce. Some scattered fir and spruce blowdown. Trace of elm, balsam poplar, and merchantable black cherry. Found one 4" ironwood in the stand and one 7" green ash that is still alive. Average ba/acre from 4 plots = 110 square feet. No access, no management.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		3	Log/Pole	10		Tag Alder		Low	5 - 10 feet	Tall Shrub	
Quaking Aspen		26	Log/Pole/XLog	12		Michigan Holly		Low	5 - 10 feet	Tall Shrub	
Balsam Fir		35	Pole/Log	8	73	Serviceberry (Juneberry)		Trace	Variable	Tall Shrub	
Northern White Cedar		3	Log/Pole	10		Black Ash		Low	Variable	Sapling	
White Spruce		33	Pole/Log	9		Black Cherry		Low	Variable	Tall Shrub	
						Balsam Fir		Low	Variable	Sapling	





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
98	6229 - Mixed lowland shrub	Nonstocked	3.4		Unspecified	No	Thick shrub component. The middle part of the stand is forested with aspen and BAM. Truly an edge call, did not venture into this stand. Possibly a few buckthorn along the road.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Quaking Aspen	Low	>20 feet	Log	
								Black Ash	Low	Variable	Sapling	
								Quaking Aspen	Low	>20 feet	Pole	
								Red Osier Dogwood	Trace	5 - 10 feet	Tall Shrub	
								Paper Birch	Trace	>20 feet	Pole	
								Balsam Poplar	Low	>20 feet	Pole	
								Balsam Fir	Trace	Variable	Sapling	
								Balsam Poplar	Trace	>20 feet	Log	
								Balsam Poplar	Trace	Variable	Sapling	
								Paper Birch	Trace	>20 feet	Sapling	
								Smooth Tartarian Honeysuckle	Low	5 - 10 feet	Tall Shrub	
								Willow spp.	Medium	Variable	Tall Shrub	
Balsam Fir	Trace	>20 feet	Pole									
99	6229 - Mixed lowland shrub	Nonstocked	2.8	0	Unspecified	No	Very wet with standing water at the south end. Only looked at a few of the edges. Canopy data is mostly an estimate.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Black Ash	Medium	Variable	Sapling	
								Tag Alder	Medium	10 - 20 feet	Tall Shrub	
								Willow spp.	Trace	>20 feet	Tall Shrub	
								Balsam Fir	Low	Variable	Sapling	
								Quaking Aspen	Low	>20 feet	Sapling	
								Quaking Aspen	Low	>20 feet	Pole	
Balsam Fir	Low	>20 feet	Pole									
100	429 - Mixed Upland Conifers	Poletimber Well	2.6	35	141-170	N/A	Small stand of primarily fir and white pine. It looks like this stand was cut at the same time as adjacent stand 34 but the white pine was not cut and aspen regeneration did not come back well. Most of the sawlog-sized white pine can be found in the middle part of the stand, including a 36" tree. Some scattered areas of wet ground. Average ba/acre from 4 plots = 143 square feet.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	24	Log/XLog/Pole	13	71
								Balsam Fir	48	Pole/Sap/Log	7	35
								White Spruce	8	Pole/Log	8	
								White Ash	1	Pole	5	
								Balsam Poplar	2	Pole	6	
								Red Maple	3	Log/Pole	10	
								Quaking Aspen	14	Pole/Sapling	6	35
								Sub-Canopy Species	Density	Avg. Height	Size	
White Ash	Trace	>20 feet	Sapling									
Quaking Aspen	Low	>20 feet	Sapling									
Balsam Fir	Medium	>20 feet	Sapling									



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<b>101</b>	429 - Mixed Upland Conifers	Sawtimber Well	3.9	73	81-110	N/A	Supercanopy, large diameter white pine with a younger age class of mostly fir, aspen, and maple mixed in. Some of the largest white pine appear much older and qualify as legacy trees based on their diameters. This stand was likely cut at the same time as adjacent stand #53, except all of the white pine was left. Most of the stand sits on a slight south-facing slope. Cedar can mostly be found at the far southern edge, where the stand transitions to lowland. Trace of red pine and hemlock in the overstory. Average ba/acre from 4 plots = 110 square feet. Potential stick nest in this stand, lots of hawk activity overhead while doing inventory.																																																																
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<b>102</b>	3105 - Mixed Upland Herbaceous	Nonstocked	0.6		Unspecified	No	Looks like an old landing.																																																																
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<b>109</b>	4319 - Mixed Upland Forest	Poletimber Well	0.0	60	51-80	N/A	Variable stand. Most of the north half falls in a wet drainage and is where most of the birch and aspen is located. The south half is mostly a mix of fir, spruce, and white pine. Sugar maple is only found at the northwest corner of the stand. Invasive honeysuckle becomes thick at the south end of the stand. Trace of cedar in the wet drainage. Average ba/acre from 3 plots = 67 square feet. No management in the wet areas.																																																																
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