



# Compartment Review Presentation

## Pigeon River Country Forest Management Unit

Compartment 53011

Entry Year 2026

Acreage: 3,133

County: Cheboygan

Management Area: Presque Isle Lake and Till Plains

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**Stand Examiner:** Greg Rekowski

### Legal Description:

T34N R01W Sec. 34-36

T33N R01W Sec. 1-3, 11-14, 23, 24

### 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:

Uplands are generally rolling to mostly level interspersed with lowland swamps and creek bottoms. Dog Lake and its associated lowland complex take up nearly half of the Compartment acreage. Upland soils are a variety of sands, loamy sands, and sandy loams, with Cheboygan loamy sands being the most common followed by the Riggsville loamy sand. Lowlands are a mixture of peats, mucks, and ponded Histosols and Aquents.

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

Solid State ownership.

### Unique Natural Features:

Red-shouldered hawk, pine imperial moth, bald eagle, osprey, and smooth green snake are all rare species that occur or have the potential to occur in this Compartment.

MNFI has documented natural community element occurrences of the following types near Dog Lake; poor fen, muskeg, bog, and northern shrub thicket.

### Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

### Special Management Designations or Considerations:

Muskeg, poor fen, and bog ecological reference areas (ERAs) have been identified in this Compartment.

Dog Lake and a large portion of the surrounding lowland types are part of a Non Dedicated Natural Area.

The south half of Dog Lake, as well as nearby uplands and lowlands, have been designated as a Special Wildlife Management Area.

### Watershed and Fisheries Considerations:

Dog Lake and its watershed flows south, joining with McMasters Creek and West McMasters Creek in the middle part of the Compartment. Both of these are coldwater streams and are tributaries to the Black River. Dog Lake is not known to offer good fishing opportunities

### Wildlife Habitat Considerations:

A Wildlife Division representative will be available to participate in the formal Compartment review.

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

No known potential exists for commercial metallic mineral production in this part of the State. No known active sand & gravel pits exist in the area. There may be some potential for sand & gravel within the Compartment on the uplands, but commercial development involving use of the surface is not allowed. The Compartment is outside the main Antrim Shale gas play. The Antrim Shale is relatively thin beneath the Compartment and may have limited potential for gas production. The Silurian reef trend is a couple miles to the southeast. Some past oil & gas wells were drilled in and around the Compartment to test for Silurian reef reservoirs but all were dry holes. State land in the Compartment and surrounding area cannot be utilized for future drilling operations and all State-owned mineral rights are non-leasable. Any decisions on future mineral exploration and development within the Compartment shall be consistent with the Concept of Management for the Pigeon River Country.

**Vehicle Access:**

Most road access is limited to the perimeter of the Compartment. The interior of the Compartment can be considered one of the more remote areas in the Pigeon River Country.

**Survey Needs:**

None required.

**Recreational Facilities and Opportunities:**

The High Country Pathway passes through Sections 35 and 36 in the northeast portion of the Compartment. The primary recreational pursuit in this area is hunting, hiking, and wildlife viewing on Dog Lake.

**Fire Protection:**

Access is generally poor in case of any fire suppression efforts, though the area is at low risk to any wildfire potential.

**Additional Compartment Information:**

The following reports from the Inventory are attached:

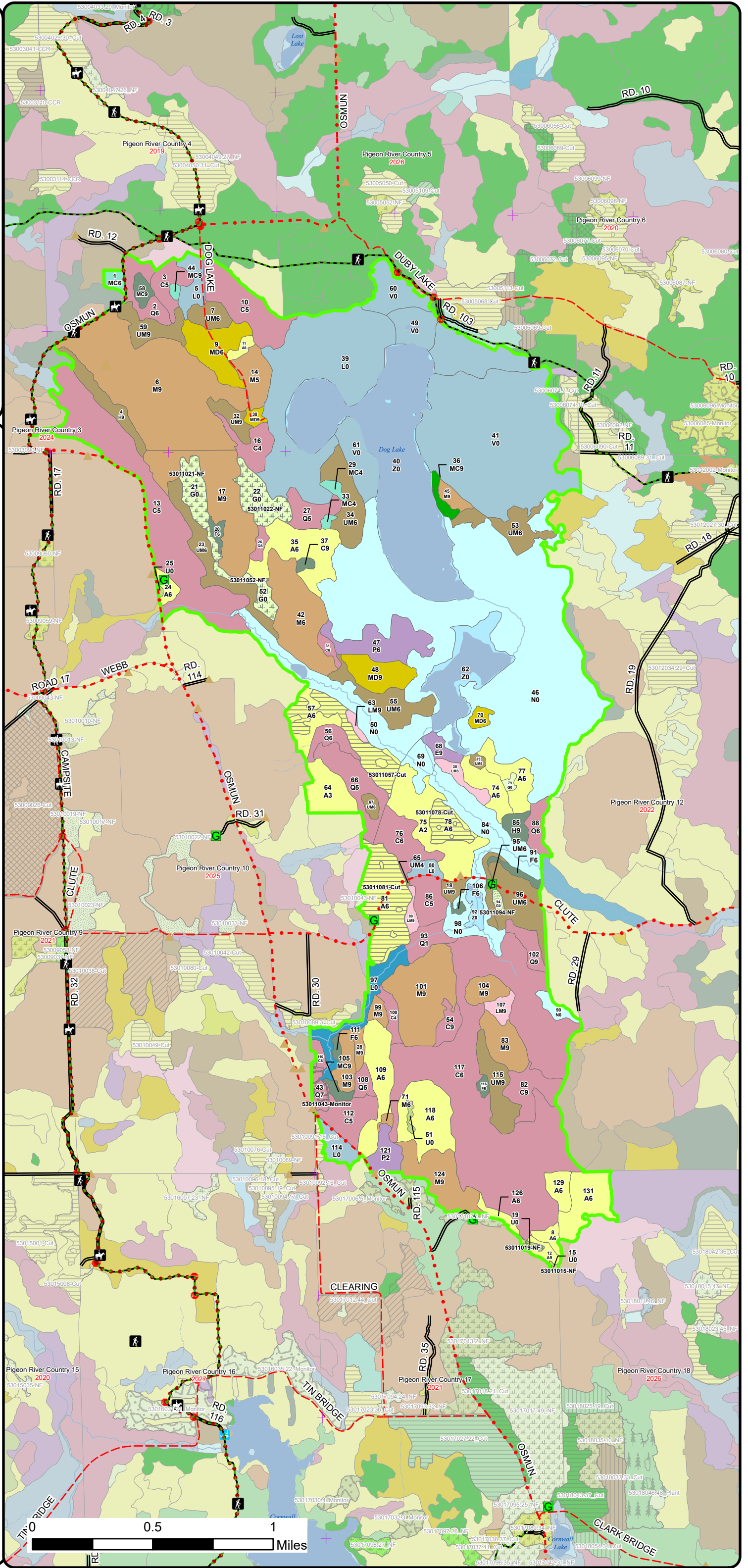
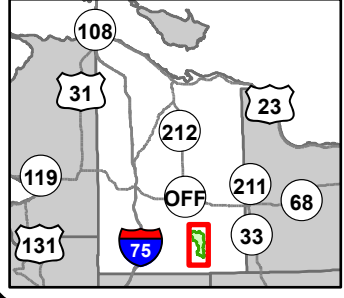
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

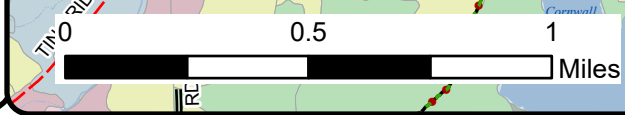
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 53011  
 T33N, R1W, Sec: 1-3, 11, 12, 14, 23, 24  
 County: Cheboygan  
 Unit: Pigeon River Country  
 Mgmt Area: Presque Isle Lake and Till Plains  
 YOE: 2026  
 Acres: 3133.1 GIS Calculated  
 Examiner: Greg Rekowski  
 Map Revised: 08/27/2024  
 Map Phase: Post Review

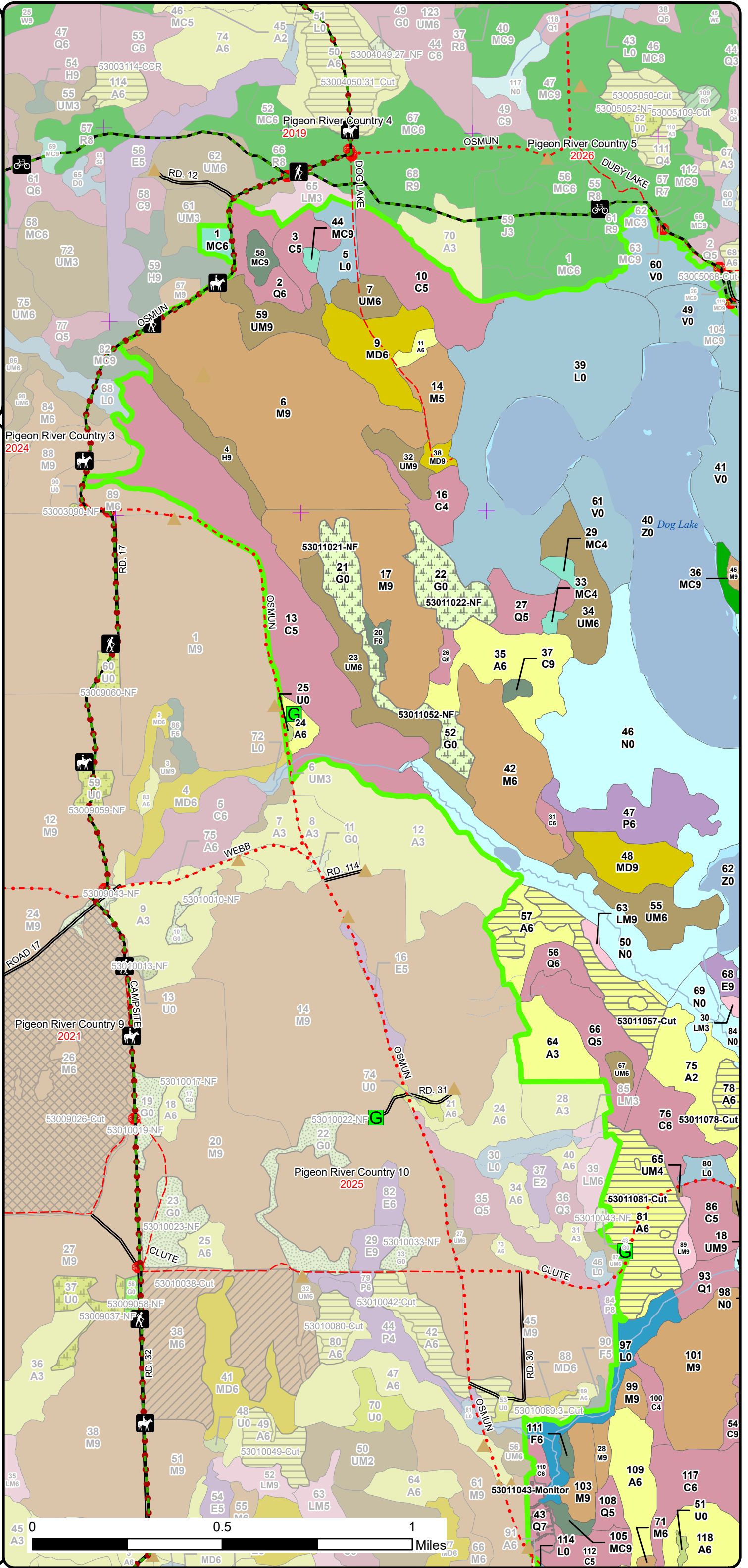
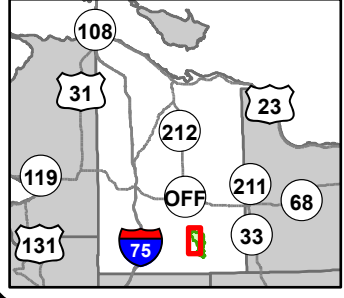


- Berms
- Gate
- Fishing Access Site
- Parking Lot
- Sign
- Remonumented Section Corners
- Hiking Trails
- Bike Trails
- Horse Trails
- Ski Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Equestrian Trails
- Designated Multi-Use Trails
- DNR - Secondary Forest Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Regeneration Survey
- Mowing
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 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
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
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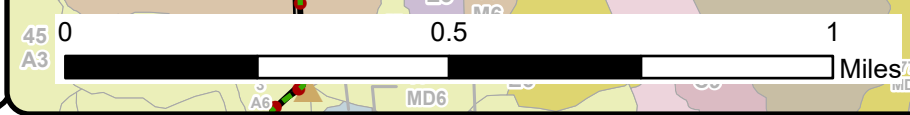


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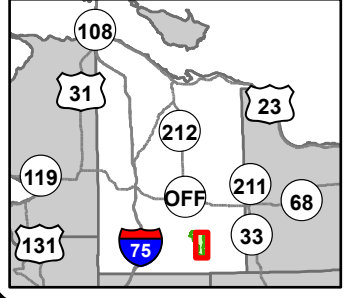


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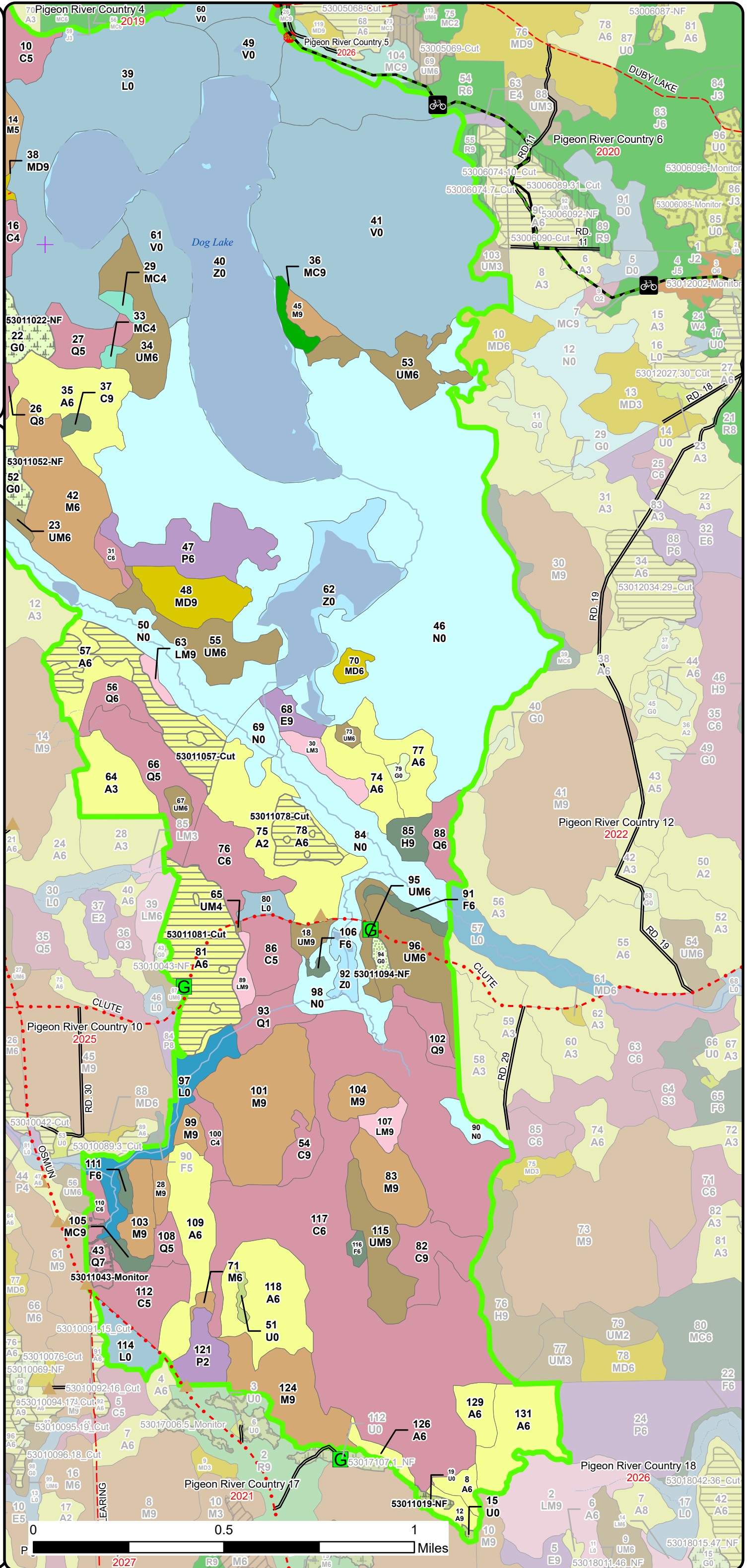


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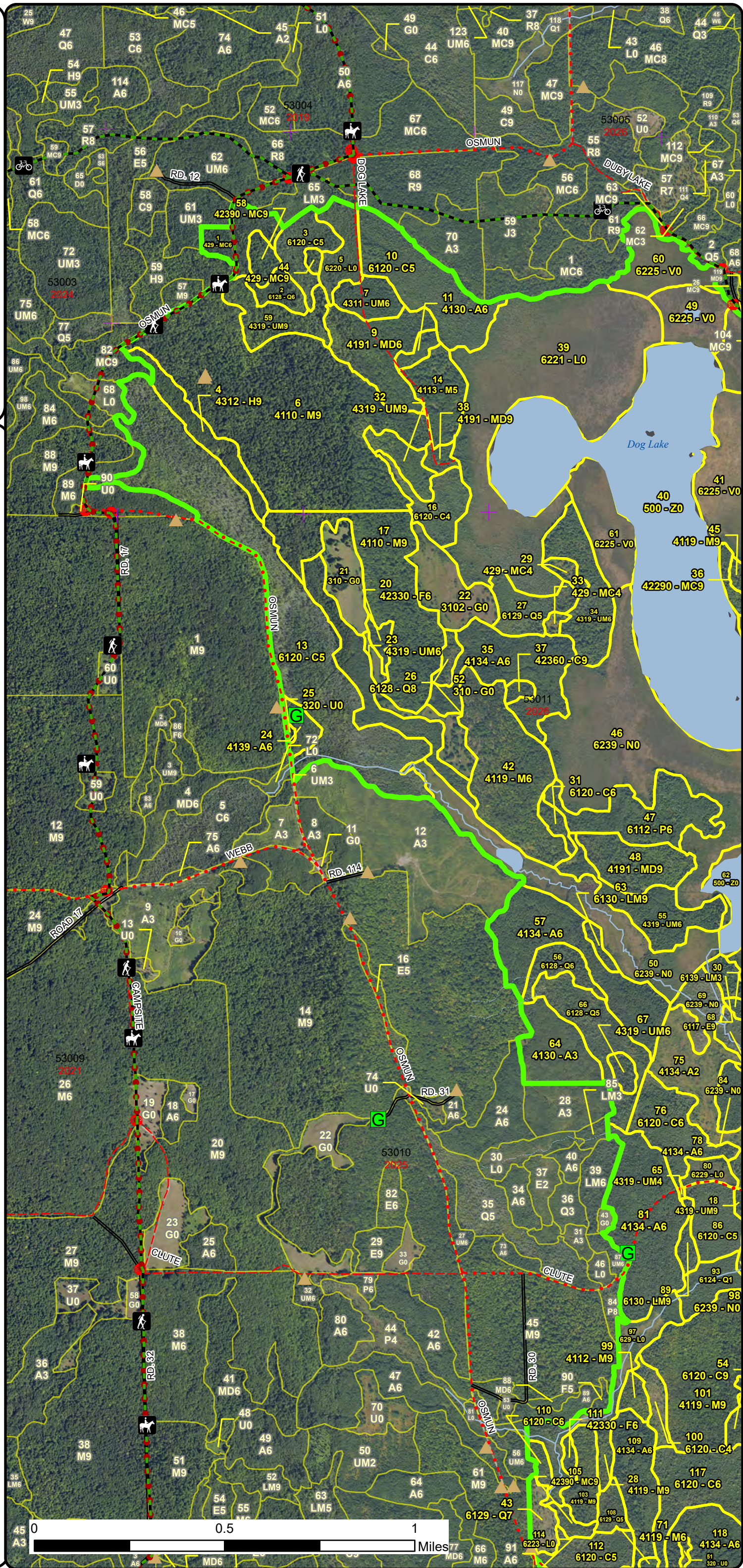
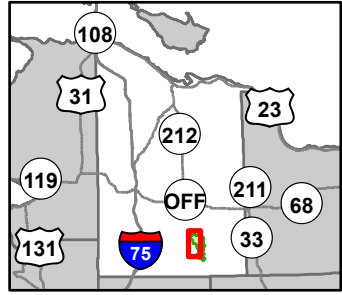


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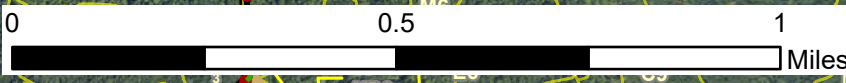


# Stand Boundary Map

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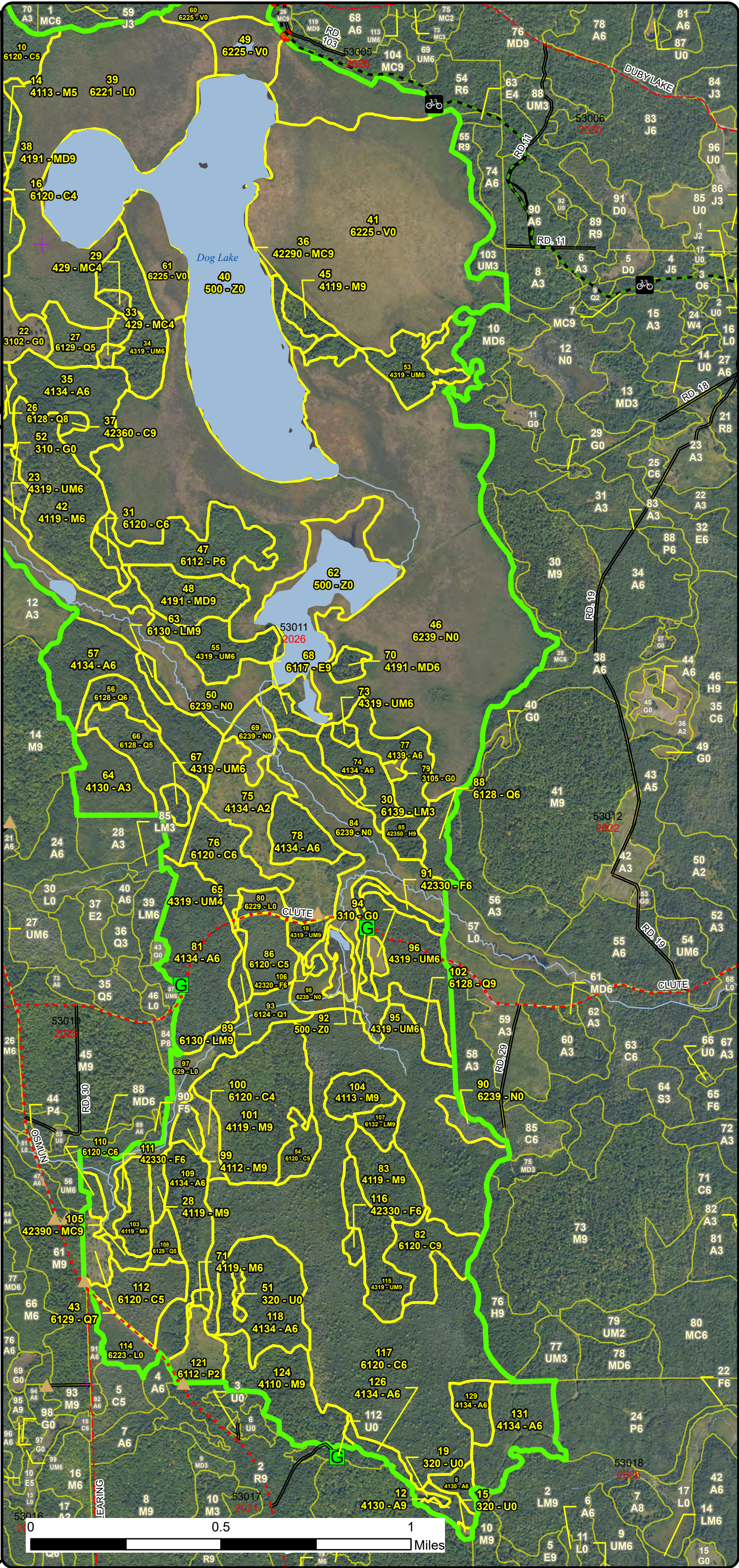
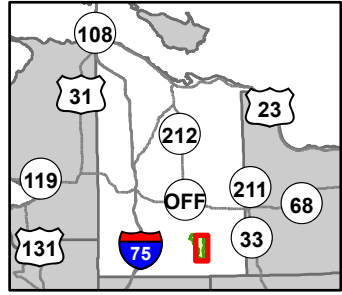


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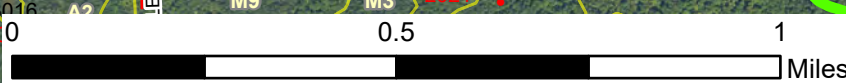


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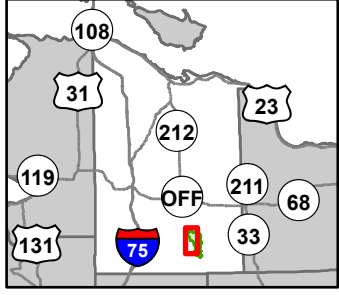


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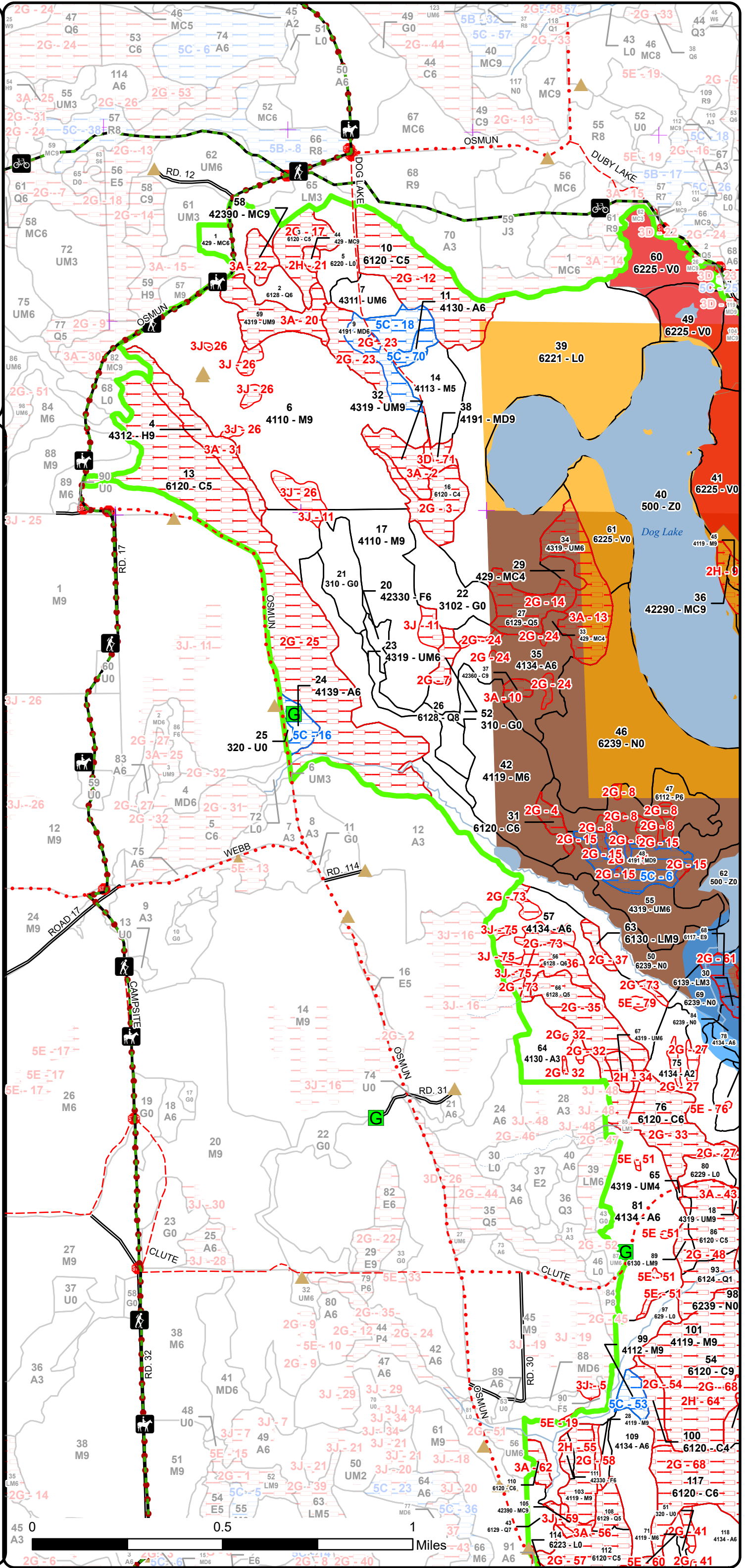


# Special Conservation Areas & Site Conditions Map

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- Available w/ Constraints
- Unavailable

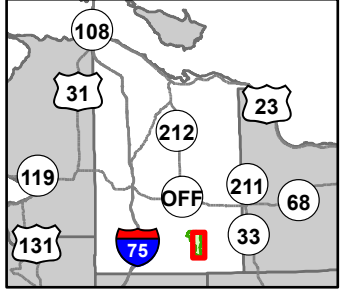


0 0.5 1 Miles

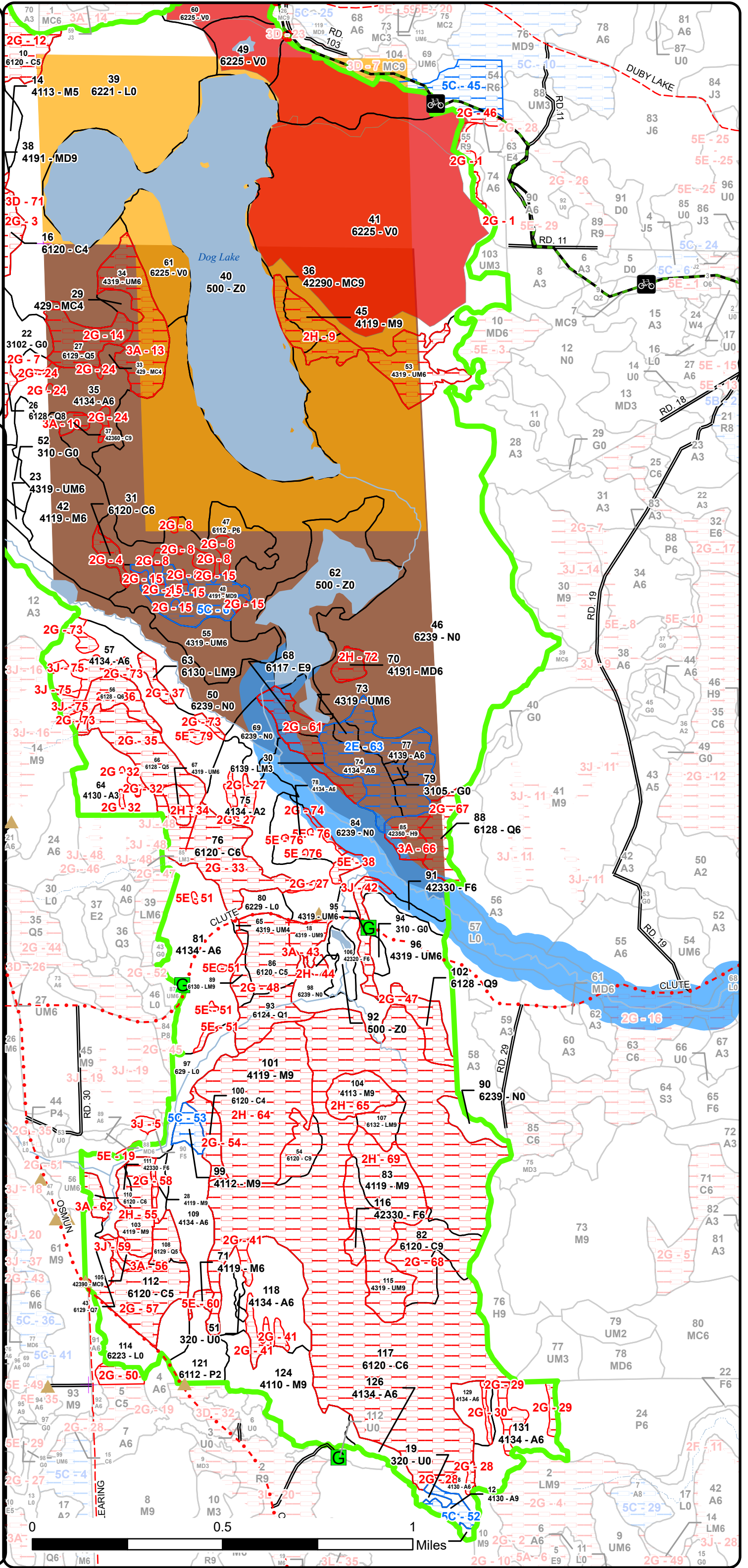


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- Unavailable
- 2E: Road needed



0 0.5 1 Miles

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	40	0	22	125	55	117	0	0	0	0	0	0	0	0	0	0	0	359
Bog	257	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	257
Cedar	0	0	0	0	0	0	0	0	0	0	43	340	156	0	8	0	0	0	547
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	16	7	0	0	0	0	23
Herbaceous Openland	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Lowland Aspen/Balsam Poplar	0	12	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Lowland Conifers	0	0	0	0	26	0	0	0	35	4	16	30	0	0	0	0	0	0	111
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7
Lowland Mixed Forest	0	0	0	0	7	0	0	0	7	0	6	0	0	0	0	0	0	0	20
Lowland Shrub	227	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	227
Marsh	515	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	515
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	31	25	0	0	0	0	0	0	0	56
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	5
Northern Hardwood	0	0	0	0	0	0	19	0	0	20	70	295	0	0	0	0	0	16	420
Upland Conifers	0	0	0	0	6	0	0	0	3	0	0	5	0	2	0	0	0	4	20
Upland Mixed Forest	0	0	0	0	77	12	0	0	28	15	26	17	0	0	0	0	0	21	196
Upland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Upland Spruce/Fir	0	0	0	0	4	5	2	0	0	0	1	0	0	0	0	0	0	0	12
Water	260	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	260
<b>Total</b>	<b>1316</b>	<b>52</b>	<b>0</b>	<b>22</b>	<b>275</b>	<b>72</b>	<b>138</b>	<b>0</b>	<b>73</b>	<b>70</b>	<b>194</b>	<b>687</b>	<b>177</b>	<b>9</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>41</b>	<b>3134</b>



## Report 2 – Treatment Summary

### Acres of Harvest

Commercial Harvest - 86  
Harvests with Site Condition - 0  
Next Step Harvest - 0  
Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	86	0	0	0	0	0	0	0	0	86
<b>Total</b>	<b>86</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>86</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	86	0	0	0	0	7	0	53		146
Next Step	0	0	0	0	0	107	0	0		107
<b>Total</b>	<b>86</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>114</b>	<b>0</b>	<b>53</b>		<b>253</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:**

<b>15</b>	<b>53011015-NF</b>	0.7	320 - Upland Shrub	Nonstocked	Unspec ified	NonForestMgt	Other - Specify	320 - Upland Shrub		No
<p><u>Prescription</u> Maintain the non-forested condition of this stand either through burning, herbicide, or mechanical means. Leave the option open for the</p> <p><u>Specs:</u> planting of hard or soft mast species.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

<b>19</b>	<b>53011019-NF</b>	1.6	320 - Upland Shrub	Nonstocked	Unspec ified	NonForestMgt	Other - Specify	320 - Upland Shrub		No
<p><u>Prescription</u> Maintain the non-forested condition of this stand either through burning, herbicide, planting or mechanical means. Leave the option open for</p> <p><u>Specs:</u> the planting of hard or soft mast species.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

<b>43</b>	<b>53011043-Monitor</b>	7.2	6129 - Mixed Coniferous Lowland Forest	Sawtimber Poor	98	1-50	Monitoring	Natural Regen (Intermediate)	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Natural regen survey</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of lowland conifers that meets stocking guidelines.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2027</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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52	53011052-NF	12.1	310 - Herbaceous Openland	Nonstocked	Unspecified	NonForestMgt	Other - Specify	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 /2025

57	53011057-Cut	28.8	4134 - Aspen, Spruce/Fir	Poletimber Well	52	141-170	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut. Do not cut any incidental elm, birch, cedar, ash, or cherry. Use retention to protect a pocket of cherry/maple/birch at the south end (already excluded). Mark scattered aspen as cut and leave trees for drumming logs and hare habitat. Roundwood and winter only cut to protect seasonally wet ground.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable

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

Regen:

Other

Comment:

Numerous vernal pools and drainages are present in the stand, particularly the north half (see site conditions layer). The approximate location of these areas have been excluded from the treatment but expect the boundary to shift even more during sale prep, potentially in excess of the variance threshold.

The closed road accessing the stand will need fill or crane mats in some locations. Consider making this an inhouse road project using DNR staff and funding.

Site Condition:

Proposed Start Date: 10/1 /2025

78	53011078-Cut	12.7	4134 - Aspen, Spruce/Fir	Poletimber Well	51	141-170	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut. Place area retention around the 3 vernal pools in the stand (already excluded and in site conditions layer). Do not cut any incidental cedar, paper birch, or black cherry. In addition, leave any spruce over 18" DBH if present. Exclude all wet areas along the east edge. Mark poor quality aspen as cut and leave trees for drumming logs and hare habitat.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

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

Regen:

Other

Comment:

Roundwood harvest during winter or dry summer conditions.

The closed road leading to this stand will need fill or crane mats over a drainage and area of wet ground. If fill is used it should be large stone to allow for continued water drainage (3A limestone).

Site Condition:

Proposed Start Date: 10/1 /2025



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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>81 53011081-Cut</b>	44.8	4134 - Aspen, Spruce/Fir	Poletimber Well	51	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut. Add area retention around areas heavier to spruce, hardwoods, or blowdown (a few desired areas have been added into the site conditions layer). Do not cut any incidental cedar or birch. Leave all spruce over 14" DBH, and all cherry and ash over 5" DBH. Mark cut and leave trees for drumming logs and hare habitat.</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 dominated by aspen with any additional mix of species being acceptable.</p> <p><u>Other Comment:</u> Exclude all wet areas and drainages, which may result in a significant reduction of acreage. Note that observed wet areas were at the far northern end and along the northwest edge. A few possible drainages were also observed along the southeast side.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>94 53011094-NF</b>	2.4	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Mowing	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain the non-forested condition of this stand either through burning, planting, herbicide, or mechanical means. Leave the option open for the planting of hard or soft mast species.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

**Approved Treatments:**

<b>21 53011021-NF</b>	15.2	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain the non-forested condition of this stand either through burning, herbicide, planting, or mechanical means.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
22 53011022-NF	20.7	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain the non-forested condition of this stand through burning, herbicide, planting, or mechanical means.</p> <p><u>Specs:</u> A wet drainage runs north-south through the western half of the stand.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p>Proposed Start Date: 10/1 /2025</p>										

Total Treatment 0  
Acreage Proposed:



Availability for Management

Total Acres    Acres Available    Acres With Condition    Acres Not Available

Dominant Site Conditions

				2E	5C	2G	2H	3A	3D	3J	5E	
359	269	47	43	Aspen	33	14	36			2	6	
257	257	0	0	Bog								
545	0	0	545	Cedar			539	5				
22	0	0	22	Hemlock				22				
52	50	2	0	Herbaceous Openland	2							
42	37	0	6	Lowland Aspen/Balsam Poplar			6					
111	22	0	89	Lowland Conifers			89					
7	0	0	7	Lowland Deciduous			7					
20	0	0	20	Lowland Mixed Forest			20					
227	227	0	0	Lowland Shrub								
515	515	0	0	Marsh								
56	0	34	22	Mixed Upland Deciduous		34	14	4	3			
5	0	0	5	Natural Mixed Pines				5				
419	297	5	118	Northern Hardwood		5	1	100		14	2	
20	9	0	10	Upland Conifers				2	7	1		
197	88	2	107	Upland Mixed Forest	2			46	55	6		
5	5	0	0	Upland Shrub								
13	8	0	6	Upland Spruce/Fir				6				
260	260	0	0	Water								
3,133	2,045	89	998	Total Forested Acres	36	53	712	162	90	3	23	7
	65%	3%	32%	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)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
Transitional zone for stand 51, most of the ground in this area is very wet.							





2	Unavailable	3A: Conservation Values incompatible with harvest at this time	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hemlock dominated stand.							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wet drainage that extends south/southwest along with additional wet ground.							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This site condition covers some, but not all, of the wetland pockets and drainages that can be found in stand 47. There are likely more.							
9	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Unavailable	3A: Conservation Values incompatible with harvest at this time	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Seasonally wet areas in stand 17 that should be excluded from any future harvests.							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	37	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	Unavailable	3A: Conservation Values incompatible with harvest at this time	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Leave unmanaged due to its proximity to the Dog Lake Marsh, which includes multiple ERAs.							

## Report 4 – Site Conditions

Pigeon River Country Mgt. Unit  
 Greg Rekowski: Examiner

Compartment: 11  
 Year of Entry: 2026



14	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This site condition covers some, but not all, of the wetland pockets and drainages that can be found in stand 48. There are likely more.							
16	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



20	Unavailable	3A: Conservation Values incompatible with harvest at this time	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Cedar/hemlock stand.							
21	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	Unavailable	3A: Conservation Values incompatible with harvest at this time	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Cedar/hemlock stand.							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Drainages, wetland pockets, and vernal pools in stand 35. There are likely more mixed in throughout the stand.							



25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	119	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
26	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Vernal pools, drainages, and wet areas in stand 6 that weren't protected during the most recent harvest but should be excluded in the future.							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wet drainages/swales in stand 131. There are more in the stand but are not easily distinguishable on imagery.							
30	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wet swale in stand 129.							

## Report 4 – Site Conditions

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31	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hemlock stand.							
32	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wet areas in stand 64.							
33	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
34	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
35	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
39	Unspecified	Unspecified	1				
Comments:							
40	Unspecified	Unspecified	0				
Comments:							
41	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet drainages/swales in stand 118.							



42	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stream and marsh buffer.							
43	Unavailable	3A: Conservation Values incompatible with harvest at this time	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
44	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
45	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
46	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
47	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							





48	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
50	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
51	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
52	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
53	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
54	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

## Report 4 – Site Conditions

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Greg Rekowski: Examiner

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55	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
56	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hemlock/cedar stand. No management.							
57	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
58	<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.							
59	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> A stream flows through this part of stand 105.							
60	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



61	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
62	Unavailable	3A: Conservation Values incompatible with harvest at this time	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
63	Available	2E: Road needed	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The current road accessing these stands is in disrepair and will require significant work, specifically in the portion that crosses that lowland, in order to be suitable for trucking.							
64	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	53	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
65	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
66	Unavailable	3A: Conservation Values incompatible with harvest at this time	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



67	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
68	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	293	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
69	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	43	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
70	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
71	Unavailable	3D: Recreational / Scenic values	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Parking area for Dog Lake access is in this stand.							
72	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



73	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Numerous vernal pools and drainages covered by this site condition.							
74	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Area of "too wet" ground that should be excluded from the harvest of stand 78.							
75	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Series of drainages/intermittent streams.							
76	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This site condition covers 3 vernal pools found in stand 78.							
79	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments
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**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
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.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																														
1	429 - Mixed Upland Conifers	Poletimber Well	4.4	34	81-110	N/A	Heavy stocking of fir with white pine and spruce also mixed in. Aspen is mostly along the east side of the stand near Osmun Road. A few scattered residual maple poletimber stems to the south. Trace of supercanopy cedar and hemlock (log/xlog size). Average ba/acre from 5 plots = 108 square feet. This stand was cut at the same time as adjacent stand 61 in Compartment 4 and they should be managed together.																																																																														
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2	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	15.2	34	111-140	N/A	Two-aged stand with primarily fir and aspen in the younger age class with a scattered older age class of cedar and hemlock. Not all areas of the stand were harvested, some pockets in the northwest and southeast corners appear to have been excluded. A few massive white pine are present, although rare overall. The west side of the stand near Osmun Road is upland but the remainder is lowland and becomes progressively wetter as you get further east. Trace of yellow birch (pole), sugar maple (pole), and red pine (pole). Average ba/acre from 8 plots = 116 square feet. The west half of the stand is definitely operable but the east parts of both the north and south ends will have to be evaluated further in snow-free conditions.																																																																														
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3	6120 - Lowland Cedar	Poletimber Medium	13.3	108	51-80	N/A	Very wet, poor quality cedar stand. A lot of the cedar is either dead or in decline. Very thick fir and alder understory in most places which makes this a difficult stand to walk through. Tamarack is mostly at the northeastern corner of the stand. Average ba/acre from 5 plots = 78 square feet.																																																																														
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<b>4</b>	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	15.5	115	81-110	N/A	High quality, healthy hemlock stand with a younger age class of hardwoods mixed in throughout. Some very large hemlock are present (20"+ DBH). Most hardwoods are in the younger age class although there are some scattered trees that appear much older. Not much understory development other than stunted, suppressed sugar maple saplings. Trace of beech (log/xlog) and basswood (log) in the overstory. Average ba/acre from 8 plots = 149 square feet. All of the stand sits on a southwest facing slope and it is all upland except for a wet ravine in the middle part of the stand. No management due to the hemlock and cedar component.																																																					
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<b>5</b>	6220 - Alder/willow	Nonstocked	12.5		Unspecified	No	Wet lowland shrub stand that is close to being forested. Tamarack is present in low amounts throughout most of the stand. Fir and spruce becomes common at the north and south ends. Next entry this may qualify as a forested stand (Q1 or Q4). A difficult stand to walk through and I only walked through the middle, the rest of the stand observations were made from the road.																																																					
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<b>6</b>	4110 - Sugar Maple Association	Sawtimber Well	148.3	105	81-110	N/A	2023 update - Thinned throughout the years of 2018-2022 by Jeff Brassuer in the sale No Gun Hardwoods 2 (#53-016-16). Rick McDonald did the majority of admin on this sale prior to his retirement. Rutting issues throughout many parts of the stand. As noted below, this may have been the best hardwood stand in the PRC, resembling an old-growth stand in places. Unfortunately, marking removed most of the big trees, leaving the smaller stunted trees. Several vernal pools were marked through as well.																																																					
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7	4311 - Pine, Aspen Mix	Poletimber Well	10.2	47	111-140	N/A	2-aged stand of mixed pine and aspen. The aspen is still quite small in most areas. A handful of white pine legacy trees are present. Along the north and east edges adjacent to the lowlands can be found a small sliver of larger maple/aspen/spruce/fir and some cedar that was not included in the previous harvest. Average ba/acre from 8 plots= 129 square feet. This stand may be ready for a harvest next entry. Manage for a mixed species stand.					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size		
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Red Maple		5	Pole/Sapling	5								
Paper Birch		1	Pole/Sapling	5								
8	4130 - Aspen	Poletimber Well	5.1	42	141-170	N/A		Moderate quality aspen stand. Some areas have a lot of red maple, both in the understory and overstory. A drainage runs north-south along most of the eastern side of the stand. It doesn't appear to be overly wet but the presence of pit and mound topography suggests it holds water in the spring. An area of much wetter ground with some standing water is present in the northwest corner. A few large pin cherry are present in the stand, including a 9" DBH tree in the northwest portion. Average ba/acre from 6 plots = 142 square feet. Remnants of an old closed road run north-south through the middle. Hold treatment off for 10 years and harvest with adjacent stands 131 to the north and 12 to the south. Exclude all water features.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size	
Red Maple		17	Pole/Sapling	6		Black Ash			Trace	Variable	Sapling	
Quaking Aspen		71	Pole/Log	8	42	Red Maple			High	>20 feet	Sapling	
Paper Birch		1	Pole/Sapling	5		Balsam Fir			Medium	Variable	Sapling	
Balsam Fir		11	Pole	6		White Ash			Low	Variable	Sapling	
						Pin Cherry			Trace	>20 feet	Pole	
						Sugar Maple			Low	>20 feet	Sapling	
						Serviceberry (Juneberry)			Trace	Variable	Tall Shrub	
						Paper Birch			Trace	>20 feet	Sapling	
9	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	27.9	83	111-140	N/A	Species diverse stand that sits on a mix of wet and dry ground. In general, the east half of the stand is mostly upland, while the west half appears to be a long, linear drainage that connects with stand 5 (L type) to the north. Hemlock and cedar are more abundant in the west half. Fir and white pine are more common east of Dog Lake Road. Nice paper birch component in areas. Pit and mound topography is common throughout. Trace of beech (pole/log) and white spruce (pole/log/xlog). Average ba/acre from 14 plots = 113 square feet. No management due to the prevalence of wet ground along with the browse sensitive cover type.					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size	
Northern White Cedar		10	Pole/Log	8		Beech			Trace	Variable	Sapling	
White Pine		4	Log/XLog/Pole	14		Tag Alder		Trace	10 - 20 feet	Tall Shrub		
Quaking Aspen		4	Log	13		White Ash		Trace	Variable	Sapling		
Paper Birch		19	Log/Pole	10		Balsam Fir		High	Variable	Sapling		
Sugar Maple		5	Pole/Log	8		Black Ash		Trace	Variable	Sapling		
Basswood		2	Log	13		Sugar Maple		Trace	>20 feet	Sapling		
Red Maple		32	Pole/Log	8	83	Red Maple		Trace	>20 feet	Sapling		
Hemlock		4	Log/XLog/Pole	13								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>10</b>	6120 - Lowland Cedar	Poletimber Medium	37.1	111	51-80	N/A	Very wet, poor quality swamp that drains into Dog Lake. For the most part, the cedar is small poletimber and appears somewhat stunted, with the exception of some occasional larger stems. Only looked at the middle part of the stand and there is a very thick understory of fir in this part, making it very difficult to get through. The remainder of observations for this stand were made from Dog Lake Road on the west side. Tamarack is almost exclusively in the western part of the stand. From imagery, it looks like the only areas of good quality in this stand are along the eastern edge. Average ba/acre from 6 plots = 60 square feet. No need to visit this stand again for some time.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Balsam Poplar		1	Pole	7		Michigan Holly		
Northern White Cedar		58	Pole/Log	8	111	Black Ash		
Paper Birch		10	Pole	7		Balsam Fir		
Balsam Fir		19	Pole/Sapling	5		Tag Alder		
Red Maple		6	Pole	8				
Tamarack		4	Pole/Log	8				
Black Spruce		2	Pole/Log	8				
<b>11</b>	4130 - Aspen	Poletimber Well	3.6	55	111-140	N/A	Mediocre aspen stand. Diameters and quality of the aspen tend to vary significantly. Trace of red oak poletimber. Average ba/acre from 4 plots = 115 square feet. Dry, flat terrain.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Quaking Aspen		5	Pole	7		Balsam Fir		
Red Maple		8	Pole/Sapling	6		Red Maple		
Balsam Fir		5	Pole	7		White Pine		
Paper Birch		1	Pole	8				
White Pine		6	Log/XLog	16				
Bigtooth Aspen		75	Pole	8	55			
<b>12</b>	4130 - Aspen	Sawtimber Well	5.0	59	141-170	N/A	Mature stand of aspen with a nice understory of sugar maple in most parts of the stand. Site quality is better west/south of the closed road and is where most of the bigtooth aspen is located. East of the road is mostly quaking aspen with a fir and red maple component. Some areas with low quality quaking aspen, the bigtooth is generally high quality. A few scattered cavity/den trees. Trace of white spruce (log), paper birch (pole), and black cherry (pole) in the overstory. Average ba/acre from 8 plots = 169 square feet. Hold ten years and cut as part of a larger patch with adjacent stands to the north.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Sugar Maple		5	Pole	7		Sugar Maple		
Balsam Fir		9	Pole/Log	8		Balsam Fir		
Red Maple		6	Pole/Log	8		Black Cherry		
Bigtooth Aspen		30	Log/Pole	12		Ironwood		
Ironwood		2	Pole	5		Red Maple		
Quaking Aspen		48	Log/Pole	12	59	Serviceberry (Juneberry)		
						Beech		
						White Ash		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
<b>13</b>	6120 - Lowland Cedar	Poletimber Medium	118.6	115	81-110	N/A	Lowland cedar stand of varying quality and stocking. A large amount of blowdown has taken place in the middle 1/3rd of the stand and is very difficult to walk through. With limited deer activity in this area, regeneration of browse sensitive species such as cedar and yellow birch was noted, although in low amounts at this time. The northern third of the stand is still relatively well-stocked and has other species mixed in along with the cedar. The southern 1/3rd of the stand is mostly well-stocked as well but varies considerably in composition, with a few areas where black spruce and tamarack are common. There are also some scattered inclusions of upland along the edges with other species such as hemlock, red maple, and birch. Trace of basswood (log) and white spruce (log/pole) in the overstory. Average ba/acre from 18 plots = 90 square feet. The ground is very wet throughout most of the stand, forming a small stream at the southern end. No management due to the wet ground.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Yellow Birch		1	Pole/Log	8		White Spruce		Trace	Variable	Sapling	
Quaking Aspen		2	Log/XLog	16		Balsam Poplar		Low	5 - 10 feet	Sapling	
Black Spruce		6	Pole/Log	8		Tag Alder		Low	10 - 20 feet	Tall Shrub	
Paper Birch		2	Pole/Log	8		Balsam Fir		Medium	Variable	Sapling	
Tamarack		3	Pole/Log	8		Black Ash		Medium	10 - 20 feet	Sapling	
Balsam Poplar		2	Pole	8		Black Spruce		Trace	Variable	Sapling	
Hemlock		9	Log/Pole	13		Paper Birch		Trace	>20 feet	Sapling	
Balsam Fir		9	Pole	7		Yellow Birch		Trace	10 - 20 feet	Sapling	
Northern White Cedar		60	Pole/Log	9	115						
Red Maple		6	Pole/Log	8							
<b>14</b>	4113 - R.Maple, Conifer	Poletimber Medium	17.1	55	51-80	N/A		Young red maple stand with a second age class of older white pine that was residual from the previous harvest. A lot of the larger white pine are open-grown, weevil deformed stems. A few residual red oak stems can be found in the middle part of the stand, as well as a few that look like new in-growth since the last harvest. Regeneration did not come back well in all places as there are scattered open areas throughout the stand, particularly in the north half. Some of these open areas are filling in with balsam fir and white pine. Regeneration is better stocked in the south half of the stand. Trace of beech (pole) and hemlock (pole/sap) in the far southern end. Average ba/acre from 9 plots = 74 square feet. The red maple needs several more entries of growth before it will be ready for a harvest.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Sugar Maple		8	Pole	6		Red Maple			Low	>20 feet	Sapling
Red Maple		54	Pole/Sapling	6	55	Serviceberry (Juneberry)			Trace	>20 feet	Tall Shrub
Paper Birch		1	Pole	7		White Pine			Medium	Variable	Sapling
White Pine		24	Log/XLog/Pole	15	85	Balsam Fir			Medium	Variable	Sapling
Black Cherry		2	Pole	6							
Red Oak		3	Log/XLog/Pole	14							
Balsam Fir		8	Pole	7							
<b>15</b>	320 - Upland Shrub	Nonstocked	0.7		Unspecified	Managed Opening	Small opening that was last mowed by wildlife in 2018. 6 shrubs were recently planted in the stand along with 1 red oak, all of which have been protected by fencing.				
Sub-Canopy Species		Density	Avg. Height	Size							
White Pine		Trace	Variable	Sapling							
Balsam Fir		Trace	Variable	Sapling							
Common Blackberry		High	< 5 feet	Tall Shrub							
Bracken Fern		Medium	Unspecified	Non-Wood							
Ironwood		Low	5 - 10 feet	Sapling							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>16</b>	6120 - Lowland Cedar	Poletimber Poor	14.8	105	1-50	N/A	<p>Poor quality, declining cedar stand, with a lot of the cedar already being dead. Those stems that are still alive probably won't make it much longer. Black ash used to be a codominant with cedar in the overstory but it is now all dead. An encouraging sign is that there is good regeneration throughout the stand, including an impressive amount of hemlock regeneration in the east half, many of which have surpassed the browse level. Black ash saplings are abundant throughout. The west half of the stand becomes much wetter and has more of a sedge/reed canary grass understory. The east half is a tangled mess of blowdown and thick shrubs in the understory, which may have prevented deer from getting in there, thus helping with the hemlock regen. Average ba/acre from 7 plots = 34 square feet. Next inventory cycle should feature the regeneration in the canopy, as the cedar should all be dead by then. An old railroad grade runs north-south through the east half.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Hemlock	4	Log	13		White Spruce	Trace		Variable	Sapling
Yellow Birch	1	Pole/Sapling	5		American Elm	Trace		>20 feet	Sapling
Red Maple	11	Pole/Log	8		Paper Birch	Trace		>20 feet	Sapling
Northern White Cedar	68	Pole	8	105	Yellow Birch	Trace		>20 feet	Sapling
Paper Birch	1	Pole/Sapling	5		Hemlock	Low		Variable	Sapling
Balsam Fir	15	Pole/Sapling	5		Balsam Poplar	Trace		Variable	Sapling
					Black Ash	High		10 - 20 feet	Sapling
					Northern White Cedar	Low		< 5 feet	Seeding
					Red Maple	Trace		Variable	Sapling
					Tag Alder	High		Variable	Tall Shrub
					Balsam Fir	Medium		10 - 20 feet	Sapling
					Hemlock	Trace		< 5 feet	Seeding
					Michigan Holly	Low	5 - 10 feet	Tall Shrub	
<b>17</b>	4110 - Sugar Maple Association	Sawtimber Well	60.7	105	81-110	N/A	<p>Pretty nice hardwood stand with some large diameter stems. Thinned in 2008 in the sale Sandhill Hardwoods (#53-007-06, Nash). Thinned heavily in areas, especially the middle part of the stand. The far southern end was excluded from the harvest. Regeneration up to this point has been exclusively undesirable species. All beech appears to have BBD. Hemlock is mostly at the far northwestern corner of the stand. Trace of balsam fir (pole/log), black cherry (pole), quaking aspen (log/xlog), white ash (pole), and paper birch (log/xlog) in the overstory. Average ba/acre from 8 plots = 98 square feet. Primarily upland except for some areas of seasonally wet ground in the southeast portion. This stand will require several more entries of growth before being ready for another treatment.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Hemlock	2	Log/Pole/XLog	14		White Ash	Medium		< 5 feet	Seeding
Basswood	25	Log/XLog	14		White Ash	Medium		Variable	Sapling
Sugar Maple	68	Log/Pole/XLog	12	105	Ironwood	Medium		Variable	Sapling
Beech	4	Log	13		Beech	Low		Variable	Sapling
Ironwood	1	Pole	5						
<b>18</b>	4319 - Mixed Upland Forest	Sawtimber Well	4.8	91	111-140	N/A	<p>Relatively diverse stand, in comparison to the surrounding area. The aspen is overmature, with many having lots of rot and being good wildlife trees. Stocking tends to vary somewhat, the best being in the northeast part of the stand. The spruce is generally high quality. Terrain is mostly upland but does gradually slope down to wetter ground at the south end. Average ba/acre from 6 plots = 112 square feet. From older imagery, it looks like this stand was originally a part of stand 75 to the north but was excluded from that harvest. This stand serves well for retention purposes and as a buffer against the marshes and beaver floodings to the east. Leave unmanaged.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	24	Log/XLog	14		Balsam Fir	High		Variable	Sapling
White Ash	1	Pole	6		Black Cherry	Trace		Variable	Tall Shrub
White Spruce	40	Pole/Log	9	91	Tag Alder	Trace		10 - 20 feet	Tall Shrub
Balsam Fir	11	Pole	6		Ironwood	Trace		Variable	Sapling
Red Maple	5	Log/Pole	12		White Spruce	Low		Variable	Sapling
Paper Birch	18	Pole/Log	8		White Ash	Low		Variable	Sapling
Black Spruce	1	Pole/Log	8						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
19	320 - Upland Shrub	Nonstocked	1.6		Unspecified	Managed Opening	Small natural opening that was last mowed by wildlife in 2018. A few shrubs have been recently planted in the west half, all of which are protected by fencing. The east half of the stand is filling in with saplings, predominantly sugar maple.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Sugar Maple	Medium	Variable	Sapling					
								Balsam Fir	Low	Variable	Sapling					
								Common Blackberry	Medium	< 5 feet	Tall Shrub					
								Ironwood	Low	Variable	Sapling					
								Spotted Knapweed	Low	Unspecified	Non-Wood					
								White Pine	Trace	Variable	Sapling					
								Red Pine	Trace	Variable	Sapling					
								Quaking Aspen	Trace	>20 feet	Log					
								Black Cherry	Trace	Variable	Tall Shrub					
								Bigtooth Aspen	Low	Variable	Sapling					
								Bracken Fern	High	Unspecified	Non-Wood					
20	42330 - Upland Fir	Poletimber Well	3.3	42	111-140	N/A	Pretty nice fir stand with an odd mix of other hardwoods. The cherry component is mostly poorly formed stems although there are some scattered nicer, straight stems. A few white ash are still alive including a sawtimber-sized tree at the south end. Some areas of lower stocking are mixed in throughout, filling in mostly with fir and ironwood. Average ba/acre from 4 plots = 123 square feet. A small amount of invasive honeysuckle is present in the middle part of the stand. According to old notes, this stand was burned along with adjacent stand 21 (G type) many years ago.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Black Cherry	12	Pole	7		Beech	Trace	Variable	Sapling
								Balsam Fir	66	Pole/Log	8	42	Black Cherry	Trace	Variable	Tall Shrub
								Balsam Poplar	1	Pole	8		White Ash	Trace	Variable	Sapling
								Paper Birch	3	Pole/Log	8		Amur Honeysuckle	Trace	5 - 10 feet	Tall Shrub
								Sugar Maple	2	Log/XLog	14		Red Maple	Trace	>20 feet	Sapling
								White Pine	1	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling
								White Spruce	1	Pole	7		Ironwood	Medium	Variable	Sapling
								White Ash	1	Pole	8					
								Ironwood	13	Pole	6					
								21	310 - Herbaceous Openland	Nonstocked	15.2		Unspecified	Managed Opening	Wildlife opening that looks like it was planted or mowed sometime in the past year or two. Scattered sawlog-sized hardwoods throughout. One clump of fir/aspen on the west side. Old notes indicate that this stand was burned in the past. There was an oil well in the center of the stand long ago but it was a dry hole and plugged in 1970.	
																Sub-Canopy Species
Mixed Grasses	Full		Non-Wood													
Basswood	Trace	>20 feet	Log													
Sugar Maple	Low	>20 feet	Log													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>22</b>	3102 - Grass	Nonstocked	20.7		Unspecified	Managed Opening				
							Sub-Canopy Species	Density	Avg. Height	Size
							Balsam Fir	Trace	Variable	Sapling
							Goldenrod spp.	Medium	Unspecified	Non-Wood
							Paper Birch	Trace	>20 feet	Pole
							Balsam Fir	Trace	>20 feet	Pole
							Spotted Knapweed	Medium	Unspecified	Non-Wood
							Mixed Grasses	Full	Unspecified	Non-Wood
							Common Blackberry	Medium	< 5 feet	Tall Shrub
							Tag Alder	Trace	10 - 20 feet	Tall Shrub
							Autumn Olive	Trace	5 - 10 feet	Tall Shrub
							Balsam Poplar	Trace	Variable	Sapling
							Hazelnut (American)	Trace	5 - 10 feet	Tall Shrub
							Red Maple	Low	>20 feet	Log
Black Cherry	Trace	Variable	Tall Shrub							
Ironwood	Trace	>20 feet	Pole							

Opening that hasn't had any active management for many years. Lots of spotted knapweed in some areas. The west half of the stand is at a slightly higher elevation than the east half. A small wet drainage runs south to north through the western half of the stand (see leaf-off imagery).

<b>23</b>	4319 - Mixed Upland Forest	Poletimber Well	26.2	36	111-140	N/A				
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Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	16	Log/Pole/XLog	12	89
White Pine	1	Log/Pole	12	
Hemlock	5	Log/XLog	15	
Red Maple	13	Pole/Sapling	5	
White Ash	1	Pole/Sapling	5	
Balsam Fir	35	Pole/Sapling	6	36
Red Oak	1	Pole/Sap/Log	6	
Quaking Aspen	20	Pole	7	36
Black Cherry	5	Pole	5	
White Spruce	1	Pole	7	
Paper Birch	1	Sapling/Pole	3	
Balsam Poplar	1	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Trace	>20 feet	Sapling
Balsam Fir	Medium	Variable	Sapling
Red Maple	Medium	Variable	Sapling
Beech	Trace	Variable	Sapling
Ironwood	Trace	Variable	Sapling

This stand originated due to a wildlife cut that was done along the swamp edge for winter deer food. All cedar and hemlock were left which gives the stand a two-aged structure. Some of the cedar and hemlock are very large (20"+). Regeneration is somewhat diverse, although dominated by fir, aspen, and red maple. The far south end is almost purely fir. The far north end is on a higher knob and has more of a hardwood influence, along with a small inclusion of A9. Just north of the closed road that bisects the stand is about a 1 acre inclusion that is mostly cedar and hemlock. Trace of black spruce (pole/sap), ironwood (pole), basswood (log/xlog), sugar maple (log/pole), and bigtooth aspen (log/pole) in the overstory. Average ba/acre from 13 plots = 119 square feet. Most of the stand is dry but sits on the upland/lowland transition so the west edge becomes wet. This stand still has a ways to go before it would be available for harvesting.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**24** 4139 - Aspen, Mixed Deciduous Poletimber Well 5.5 56 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	8	Pole/Sapling	6	
Black Cherry	2	Pole	6	
Balsam Fir	12	Pole	6	
Quaking Aspen	49	Pole/Log	8	56
Paper Birch	6	Pole/Sap/Log	6	
Bigtooth Aspen	4	Log	11	
Red Maple	18	Pole/Sapling	6	
Hemlock	1	Log/XLog/Pole	15	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Sugar Maple	High	>20 feet	Sapling
Beech	Trace	5 - 10 feet	Sapling
White Ash	Trace	Variable	Sapling
Red Maple	Low	>20 feet	Sapling

Good looking aspen stand with a nice component of young hardwoods. Sugar maple is abundant in many areas of the understory. The southeast part of the stand is more of a birch/maple/fir mix without much aspen. The far north end has a small inclusion of larger aspen and hardwoods. Areas of pit and mound topography with seasonally wet ground along the east edge. Possibly two small vernal pools on either side of the gate in the interior of the stand. Trace of live white ash (poletimber), cedar (log), yellow birch (pole), and elm (pole/sap). Average ba/acre from 8 plots = 135 square feet.

**25** 320 - Upland Shrub Nonstocked 0.7 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Bracken Fern	Medium	Unspecified	Non-Wood
Black Cherry	Trace	>20 feet	Pole
Smooth Sumac	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	Low	10 - 20 feet	Sapling
White Pine	Low	Variable	Sapling
Amur Honeysuckle	Medium	5 - 10 feet	Tall Shrub
Sugar Maple	Trace	5 - 10 feet	Sapling

Small opening along Osmun Road that is popular for camping at various times of the year, especially deer season. Invasive honeysuckle is present throughout, although not at overwhelming numbers yet.

**26** 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Medium 3.8 88 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	38	Log/Pole/XLog	11	88
Ironwood	1	Pole	5	
American Elm	1	Pole	6	
Balsam Fir	21	Pole/Log	8	
Black Cherry	1	Pole	7	
Red Maple	9	Log/Pole	11	
Sugar Maple	10	Pole	8	
Paper Birch	2	Pole/Log	8	
Basswood	14	Log/XLog/Pole	15	
Balsam Poplar	2	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Trace	10 - 20 feet	Tall Shrub
Black Ash	Trace	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
White Ash	Low	Variable	Sapling
Ironwood	Low	Variable	Sapling
Red Maple	Trace	>20 feet	Sapling
Beech	Trace	Variable	Sapling

Mixed species stand that is about an even split between upland and lowland. The east half of the stand is a very wet drainage and is poorly stocked in most areas. The west half is more upland and has a mix of fir, cedar, and hardwoods. The cedar is large diameter and healthy on the upland portions. Average ba/acre from 8 plots = 102 square feet. No management due to the wet ground and cedar component.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
<b>27</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	14.0	105	51-80	N/A	Low quality, poorly-stocked swamp conifer stand. Much of the cedar is in decline or dead. The only area of good quality and stocking is at the far east end which has some drier ground. An old railroad grade runs north-south through the western half of the stand. East of the grade tends to have more spruce, both in the overstory and understory, and has bog-like characteristics in many places along with scattered inclusions of upland. West of the grade is much wetter ground with a lot more alder in the understory and more deciduous trees species present, like black ash. Average ba/acre from 6 plots = 72 square feet. Too wet for management.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		43	Pole/Log	8	105	Tag Alder		Medium	10 - 20 feet	Tall Shrub	
White Pine		1	Log/XLog	17		Black Spruce		Medium	Variable	Sapling	
Black Spruce		25	Pole/Sap/Log	5		Yellow Birch		Trace	Variable	Sapling	
Paper Birch		3	Pole	7		Paper Birch		Trace	>20 feet	Sapling	
Balsam Fir		23	Pole/Sapling	6		American Elm		Trace	Variable	Sapling	
Balsam Poplar		1	Pole	8		Black Ash		Medium	Variable	Sapling	
Red Maple		4	Pole/Log	8		Balsam Fir		High	Variable	Sapling	
						Michigan Holly		Low	5 - 10 feet	Tall Shrub	
						Red Maple		Low	Variable	Sapling	
<b>28</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	4.2	86	51-80	N/A		Generally a poor quality hardwood stand that is not well-stocked in all places. Naturally succeeding to beech and fir in the more poorly-stocked areas. Despite being lower in elevation than stands to the east and west, this is mostly a dry stand, although there are scattered pockets of wet ground in the north half as well as a long linear drainage along the entire western edge of the stand. Average ba/acre from 4 plots = 80 square feet.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Quaking Aspen		14	Log/XLog	15		Balsam Fir			Full	Variable	Sapling
Sugar Maple		20	Pole/Log	9		Red Maple			Trace	>20 feet	Sapling
Red Maple		40	Log/Pole	10	86	Sugar Maple			Trace	>20 feet	Sapling
Paper Birch		14	Log/Pole	10		Beech			Medium	Variable	Sapling
Balsam Fir		8	Pole	6		White Spruce			Trace	Variable	Sapling
Northern White Cedar		2	Log/Pole	12							
White Spruce		2	Pole	7							
<b>29</b>	429 - Mixed Upland Conifers	Poletimber Poor	3.3	74	1-50	N/A	Old opening with scattered larger trees that has filled in slowly with conifers over the years. A few very large, weevil-damaged white pine scattered throughout. Good stocking and quality along the swamp edge. Trace of paper birch (pole). Average ba/acre from 4 plots = 38 square feet. Heavy bracken fern component in areas that are still open.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		1	Log	12		White Pine		Medium	Variable	Sapling	
Balsam Fir		20	Pole/Sapling	6		Balsam Fir		Medium	Variable	Sapling	
Red Maple		9	Log/Pole	11		White Spruce		Low	Variable	Sapling	
White Spruce		8	Pole/Log	8							
Black Spruce		16	Pole/Log	8							
White Pine		46	Log/XLog/Pole	13	74						
<b>30</b>	6139 - Mixed Lowland Forest	Sapling Well	7.3	35	51-80	N/A	Mixed species lowland stand with a very nice representation of paper birch. Clearcut at the same time as adjacent stand 74. Based on old stumps, this was previously a cedar stand. No cedar regeneration was observed other than a handful of heavily browsed seedlings. Some areas of poor stocking in the north half of the stand. Mostly all wet lowland except for the far northwestern part which is a small inclusion of drier ground. Trace of elm (pole/sap), beech (pole), red oak (pole/sap at the far west end), and residual hemlock (log/xlog) in the canopy. Average ba/acre from 7 plots = 76 square feet. This is quite a wet stand and based on the lack of cold weather we now receive in the winter I would say that this is an inoperable stand. There is also no current access to this area.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Tamarack		20	Pole/Sap/Log	6		White Spruce		Trace	5 - 10 feet	Sapling	
Paper Birch		30	Sapling	3	35	Black Ash		Trace	5 - 10 feet	Sapling	
Balsam Poplar		8	Pole/Sapling	6		Willow spp.		Low	>20 feet	Tall Shrub	
Northern White Cedar		2	Log/Pole	10		Balsam Fir		Medium	5 - 10 feet	Sapling	
White Spruce		1	Pole/Sapling	5		Tag Alder		High	10 - 20 feet	Tall Shrub	
Red Maple		13	Sapling	3							
Balsam Fir		24	Sapling/Pole	3							
White Pine		2	Sapling/Pole	4							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>31</b>	6120 - Lowland Cedar	Poletimber Well	3.6	92	201+	N/A	Nice stand of cedar that sits on lowland soils but the ground is not overly wet. The south half of the stand has less cedar and more hardwoods mixed in. Average ba/acre from 2 plots = 210 square feet. Do not manage.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Balsam Fir		10	Pole	7		Balsam Fir		
Northern White Cedar		52	Pole/Log	9	92	Medium		
Bigtooth Aspen		2	Log	14		Variable		
Paper Birch		10	Pole/Log	8		Sapling		
Red Maple		13	Log/Pole	11		Low		
Balsam Poplar		1	Log	10		Trace		
Basswood		2	Log	13		Variable		
Quaking Aspen		10	Log/XLog	14		Sapling		
<b>32</b>	4319 - Mixed Upland Forest	Sawtimber Well	9.2	88	171-200	N/A	High quality hemlock/red maple stand. Very dense stocking in the majority of the stand. The hemlock is healthy and vigorous for the most part. A few massive white pine are scattered throughout, some in excess of 30"+ DBH. Some hemlock seedlings were observed in the southeast part of the stand but most are being heavily browsed. The northwest part of the stand becomes wet, with more hardwoods and less hemlock. Average ba/acre from 6 plots = 185 square feet. No management due to the hemlock influence.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Balsam Fir		1	Pole	6		White Pine		
Northern White Cedar		2	Log	13		Trace		
Paper Birch		1	Pole/Log	8		Variable		
Basswood		2	Log	13		Sapling		
Yellow Birch		5	Pole	8		Low		
Sugar Maple		8	Pole/Log	8		Variable		
White Pine		4	XLog	23		Sapling		
Red Maple		39	Log/Pole	11	88	Seedling		
Hemlock		38	Log/XLog/Pole	14	127	< 5 feet		
<b>33</b>	429 - Mixed Upland Conifers	Poletimber Poor	1.7	34	1-50	N/A	Old opening that is filling in with conifer species. Some larger red maple, white pine, and birch are scattered throughout the stand. Average ba/acre from 3 plots = 23 square feet. Lots of bracken fern in the areas that are still open.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
White Pine		15	Pole/Log/XLog	8		Jack Pine		
Red Maple		28	Log/Pole	12	74	Trace		
Paper Birch		3	Log/Pole	13		Medium		
White Spruce		7	Pole/Log	8		Variable		
Balsam Fir		41	Pole/Sap/Log	6	34	Sapling		
Black Spruce		5	Pole/Log	8		Low		
Northern White Cedar		1	Log	12		Variable		
						Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																																					
<b>34</b>	4319 - Mixed Upland Forest	Poletimber Well	24.4	74	81-110	N/A	This stand occupies a peninsula sticking out into the Dog Lake marsh. Mediocre quality red maple and fir dominate the overstory. The understorey is almost completely fir and thick in many areas. A couple of very nice paper birch, including one 22" tree in the middle part of the stand that might be the nicest birch I've ever seen. However, most birch in the stand have died over the years. White pine legacy trees are scattered throughout. The far northern end of the stand is dominated by white pine. Cedar can be found mostly at this northern end as well, on the west side of the peninsula. Trace of red pine (pole/log) and black spruce (pole) in the overstory. Average ba/acre from 13 plots = 110 square feet. Ground is mostly upland except for along the edges as well as some wet pockets in the middle part of the stand (see site conditions layer). This stand should not be managed due to it's proximity to the adjacent marsh.																																																																																																					
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<b>35</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	36.9	34	81-110	N/A	Mixed aspen/fir stand, with some areas being nearly pure fir. This stand was clearcut in 1990 in the sale Dog Lake Clearcut (#53-003-86, Stampfly Sawmill). Regeneration came back well and the stand is fully-stocked. There are some scattered larger residual stems, mostly red maple and fir, and can be found more commonly in the southwest finger of the stand as well as the northwest corner. All cedar was left as residual as well. Aspen diameters vary significantly with some areas still being barely merchantable. Trace of live white ash (pole), basswood (log/xlog), black spruce (pole/sap), red maple (log), and elm (log). Average ba/acre from 15 plots = 105 square feet. Numerous drainages and wetland potholes are present (see site conditions layer). It's possible this stand will be ready for a harvest next entry, protect all water features.																																																																																																					
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<b>36</b>	42290 - Natural Mixed Pine	Sawtimber Well	4.8	111	171-200	N/A	High quality natural pine stand on the Dog Lake "island". Red pine is mostly concentrated in the north half while white pine dominates the south. All size classes of white pine are present including some massive 30"+ DBH trees. Possibly an uneven-aged stand although structurally it still resembles more of an even-aged stand at this time. Trace of white spruce (pole) and elm (pole). Average ba/acre from 3 plots = 190 square feet. There is a small camping spot near the middle part of the stand.																																																																																																					
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<b>37</b>	42360 - Upland Cedar	Sawtimber Well	2.3	105	201+	N/A	Small stand of high quality, healthy cedar. A few wet areas in the stand but overall the ground appears to be mostly dry. A large (roughly 18" DBH) elm at the east end. Average ba/acre from 4 plots = 210 square feet. No management.																																																																
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<b>38</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	3.5	88	81-110	N/A	Mixed species stand that has a small parking area for access to Dog Lake. White pine is mostly in the east half of the stand. The west half of the stand is dominated by red maple. A nice component of younger hemlock is present (saplings and poletimber) around the parking area. Trace of yellow birch (poletimber). Average ba/acre from 3 plots = 107 square feet. No management due to the small acreage and road influence.																																																																
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<b>39</b>	6221 - Fen	Nonstocked	175.7		Unspecified	No	This stand has been documented by MNFI as a natural community element occurrence of a poor fen. It was last surveyed by MNFI in the summer of 2023.																																																																
<b>40</b>	500 - Water	Nonstocked	199.7		Unspecified	No	Dog Lake																																																																
<b>41</b>	6225 - Bog	Nonstocked	195.4		Unspecified	No	This stand has been documented by MNFI as a natural community element occurrence of a muskeg. It was last surveyed by MNFI in the summer of 2023.																																																																
<b>42</b>	4119 - Mixed Northern Hardwoods	Poletimber Well	50.2	92	81-110	N/A	Relatively diverse northern hardwood stand. Recently thinned in the winter of 2022 in the sale Dam Trail Hardwoods (#53-021-16), bought and cut by Tulgetska. However, Tulgetska moved out before finishing the sale and there are still some uncut areas in the southern part of the stand, as well as some wood that was left on the ground. The far southern end of the stand transitions to more of a red maple/birch/aspen type, although there are still some sugar maple and basswood mixed in. Wet ground is present in the middle part of the stand and appears to drain north. No rutting concerns from the recent harvest as there was a lot of snow on the ground when it was cut. Stand won't be ready for another harvest for at least 20 years.																																																																
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<b>43</b>	6129 - Mixed Coniferous Lowland Forest	Sawtimber Poor	7.2	98	1-50	N/A	<p>2023 regen survey update - Some seedlings are showing up, mostly fir and spruce, but more time is needed to evaluate the stand. Results from 5 1/100th acre plots; balsam fir 180 TPA (6" avg height), hemlock 80 TPA (6" avg height), white pine 20 TPA (6" avg height), white spruce 20 TPA (1' avg height). The water table has been raised following the harvest and there are many areas where cattails have taken over. Several of the residual hemlock appear stressed with some mortality in the southern half. Average residual ba/acre = 44 square feet. One yellow birch log tree and two cedar were left at the south end.</p> <p>This stand was cut in the winter of 2020-21 by Mike Dameastri (Diversified Forestry) in the sale Big Swale Swamp Plus (#53-009-16-01). Nice job of harvesting on the sale with only a few small areas of rutting. This was previously a high quality cedar stand, and all of the hemlock was left. A small stream borders the east side of the boundary, in some areas the red line went almost right up to the stream. Bad job of sale prep as this is an obvious BMP violation.</p>																																																																													
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<b>44</b>	429 - Mixed Upland Conifers	Sawtimber Well	1.6	125	141-170	N/A	<p>Small upland island of very nice hemlock and white pine. Some massive white pine are mixed in throughout (30"+ DBH). Upland cedar is mostly along the edges. The hemlock is healthy. Average ba/acre from 2 plots = 165 square feet.</p>																																																																													
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<b>45</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	5.7	85	111-140	N/A	<p>Small stand of diverse hardwoods on the Dog Lake "island". Uneven-aged structure with massive XL-sized trees that are much older scattered throughout. A few clumps of younger trees that have recruited into canopy gaps over the years, including a clump with some nearly merchantable striped maple. Most species display good growth. Trace of yellow birch (pole), elm (pole), and white spruce (pole). Average ba/acre from 4 plots = 135 square feet.</p>																																																																													
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<b>46</b>	6239 - Mixed Emergent Wetland	Nonstocked	388.7		Unspecified	No	<p>Large wetland complex surrounding the south half of Dog Lake. Dissimilar to the areas to the north, this area has not been documented as an element occurrence by MNFI.</p>																																																																													



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47	6112 - Lowland Aspen	Poletimber Well	30.4	33	111-140	N/A	Moderate quality aspen stand with a heavy component of fir. Toss-up between an upland or lowland stand, seems to be a near even split. Numerous wet pockets are present throughout the stand, varying in composition (see site conditions layer). Some have sphagnum at the ground level with spruce and fir in the overstory, while others are filled with holly and alder. Some of the drier areas of the stand are still quite "hummocky" suggesting that the stand becomes seasonally wet in the spring. Clumps of residual cedar and hemlock are present, more common in the west half of the stand. Some areas along the swamp edges are nearly pure fir due to past beaver activity which removed the aspen. Average ba/acre from 11 plots = 112 square feet. Most of the ground outside of the wet pockets appears to be operable. Protect all water features when a harvest is prescribed.																																																																																		
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48	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	20.6	90	111-140	N/A	Red maple dominated stand of moderate quality with a heavy understory of fir. Not all areas of the stand are well-stocked. Upland soils predominate however there are numerous wet pockets and drainages scattered throughout (see site conditions layer). Many of the upland areas are "hummocky" suggesting that the stand may be seasonally wet in the spring. Some of the wet areas are forested with cedar and red maple, while others are non-forested and primarily filled with holly. Trace of black spruce (pole), white spruce (pole), elm (pole/log), and bigtooth aspen (log/xlog). There are a handful of white pine legacy trees. Average ba/acre from 10 plots = 112 square feet. This stand was previously set-up for a clearcut and sold in the sale Dam Trail Hardwoods, bought by Tulgetska. No activity took place and the sale was dropped.																																																																																		
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49	6225 - Bog	Nonstocked	17.3		Unspecified	No	This bog has been documented as a natural community element occurrence by MNFI. It was last surveyed in the summer of 2023.																																																																																		
50	6239 - Mixed Emergent Wetland	Nonstocked	49.9		Unspecified	No	McMaster's Creek flows through the length of this stand and is dammed by beavers numerous times throughout. The most recent dam is in the middle part of the stand and is backing water up into stand 55 in Comp 11, which has killed an acre or two of trees. Recent cuts in adjacent Compartments did not use appropriate buffers to discourage beaver activity. The far east edge of the stand is the site of the old dam that kept Dog Lake flooded. It has been removed, however beavers have created their own dam just west of where it was.																																																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments							
51	320 - Upland Shrub	Nonstocked	1.7	0	Unspecified	No	This stand was cut at the same time as adjacent stand 118 but has not regenerated well except for some scattered fir. It appears to be a heavily impacted site so I'm guessing it was used as the landing. Lots of bracken and a good amount of blackberry too.							
								Sub-Canopy Species	Density	Avg. Height	Size			
								Black Cherry	Low	< 5 feet	Tall Shrub			
								Ironwood	Low	Variable	Sapling			
								White Spruce	Trace	>20 feet	Pole			
								Balsam Poplar	Trace	>20 feet	Pole			
								White Spruce	Trace	Variable	Sapling			
								Autumn Olive	Trace	5 - 10 feet	Tall Shrub			
								Balsam Fir	Low	Variable	Sapling			
								Common Blackberry	Medium	< 5 feet	Tall Shrub			
								Ironwood	Low	< 5 feet	Seeding			
								Balsam Fir	Medium	>20 feet	Pole			
								Hazelnut (American)	Trace	5 - 10 feet	Tall Shrub			
Balsam Poplar	Low	5 - 10 feet	Sapling											
52	310 - Herbaceous Openland	Nonstocked	12.1		Unspecified	Managed Opening	Wildlife opening that is periodically mowed. It has not been planted recently.							
								Sub-Canopy Species	Density	Avg. Height	Size			
							Mixed Grasses	Full		Non-Wood				
53	4319 - Mixed Upland Forest	Poletimber Well	20.7	75	111-140	N/A	Mixed species stand that is essentially an "island" surrounded by the Dog Lake marsh. Uneven-aged structure is evident as all 3 size classes of white pine are present, including scattered large diameter legacy trees, some in excess of 30" DBH. Some gap dynamics are ongoing as a result of some of the larger diameter white pine that have fallen over. Pit and mound topography is present in areas. The northwestern part of the stand has more white pine and also a few inclusions of wet ground. The eastern part of the stand, including the two fingers, becomes wet (did not visit the 2 "fingers"). Hemlock is most numerous in the south/southeast part of the stand. Trace of ironwood (pole), white spruce (pole), and beech (pole) in the overstory. Average ba/acre from 14 plots = 128 square feet. No management obviously.							
								Canopy Species	% Cover	Size Class	DBH	Age		
								Hemlock	4	Log/Pole/XLog	13			
								Basswood	1	Log/XLog	14			
								Quaking Aspen	1	Log/XLog	16			
								Balsam Fir	12	Pole	6			
								Northern White Cedar	2	Log/Pole	12			
								Paper Birch	9	Pole/Log	9			
								White Pine	33	Pole/Log/XLog	8	57		
								Red Maple	35	Pole/Log	8	75		
Red Pine	1	XLog	20											
Balsam Poplar	2	Pole	7											
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			Balsam Fir	High	Variable	Sapling								
			Red Maple	Low	>20 feet	Sapling								
			Tag Alder	Low	Variable	Tall Shrub								
54	6120 - Lowland Cedar	Sawtimber Well	8.3	132	201+	N/A	High quality cedar/hemlock stand that is upland along the west side but transitions to lowland in the east half. Most hemlock are in the upland areas including a dense clump at the north end. There is some scattered hemlock mortality in the stand, I did not observe any HWA in the lower branches. Trace of balsam poplar (log), quaking aspen (log), sugar maple (pole), and ironwood (pole) in the overstory. Average ba/acre from 7 plots = 220 square feet.							
								Canopy Species	% Cover	Size Class	DBH	Age		
								Hemlock	23	Log/Pole/XLog	14			
								Red Maple	13	Log/Pole/XLog	12			
								Yellow Birch	2	Pole/Log	9			
								Northern White Cedar	55	Log/Pole/XLog	10	132		
								Paper Birch	1	Pole/Log	8			
								White Spruce	1	Log/Pole	12			
								Basswood	5	Log/Pole/XLog	13			
											Sub-Canopy Species	Density	Avg. Height	Size
											Striped Maple	Trace	Variable	Sapling
			Balsam Fir	Medium	Variable	Sapling								
			Beech	Trace	5 - 10 feet	Sapling								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																
<b>55</b>	4319 - Mixed Upland Forest	Poletimber Well	23.1	33	81-110	N/A	Moderate quality mixed species stand. Diameters tend to vary, ranging from areas of poletimber to areas that are still sub-merchantable. A scattered residual of larger diameter birch, red maple, cedar, spruce, and fir is scattered throughout the stand, both individual trees and in clumps. Beavers have removed lots of aspen along the southern edges over the years, they are currently knocking down aspen in the western end of the stand. Trace of basswood (log), ironwood (pole), white pine (pole), and elm (pole/sap). Average ba/acre from 14 plots = 97 square feet. Several areas of wet ground along the south edge, including a few small drainages. The access to the old Dog Lake dam is at the eastern end of the stand.																																																																																
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<b>56</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	9.4	96	111-140	N/A	Diverse stand that sits on a mix of upland and lowland. The ground is very uneven, with small ridges and humps mixed in among wetter lowlands. In general, lowland becomes more prominent in the southern parts of the stand. Cedar and spruce are good quality and healthy for the most part. Some of the aspen are large diameter and good wildlife trees. Average ba/acre from 6 plots = 132 square feet. No management due to the wet ground.																																																																																
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<b>57</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	42.3	52	141-170	N/A	Nice stand of primarily aspen and fir that sits on various site qualities and topographical positions. Clearcut in 1972 by William St. Amour. The south half of the stand is almost all upland, and while aspen and fir is dominant, there are a few scattered pockets that have more red maple, birch, and cherry mixed in. The north half of the stand has a heavier fir influence and also has numerous vernal pools and drainages mixed in (see site conditions layer for approximate locations), making it more of a lowland type in most places. The far west/northwest edge of the stand increases in elevation and is on better quality soils; this is where most of the bigtooth aspen and sugar maple component is located. Trace of black spruce (pole), white spruce (log/xlog), cedar (log), and elm (pole/log) in the overstory. A few white ash are still alive, including a few stems that are close to sawtimber size. Average ba/acre from 18 plots = 141 square feet. An old railroad grade runs east-west through the northern part of the stand. From imagery it looks like it continues east through the adjacent marsh.																																																																																
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<b>58</b>	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Well	5.1	108	141-170	N/A	Nice upland cedar/hemlock stand that had a species removal harvest years ago. The site is mostly upland except for along the edges. Hemlock is more common in the north half, cedar more common in the south. Trace of XL-sized white pine. Average ba/acre from 5 plots = 168 square feet. No management due to the cedar/hemlock influence.																																																																			
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<b>59</b>	4319 - Mixed Upland Forest	Sawtimber Well	16.7	108	111-140	N/A	Cedar and hemlock dominated stand that sits on an upland/lowland transition. The stand slopes gently down to the north and there appears to be numerous seeps present. Generally high quality cedar and hemlock, all of which is healthy. Hardwoods more common along the south edge. A few areas of lower stocking that are filling in with ash species. Trace of beech in the overstory. Average ba/acre from 9 plots = 140 square feet. No management due to the hemlock/cedar component as well as the wet ground.																																																																			
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<b>60</b>	6225 - Bog	Nonstocked	21.7		Unspecified	No	This stand has been documented by MNFI as a natural community element occurrence of a muskeg. It was last surveyed by MNFI in the summer of 2023.																																																																			
<b>61</b>	6225 - Bog	Nonstocked	22.8		Unspecified	No	This stand has been documented by MNFI as a natural community element occurrence of a muskeg. It was last surveyed by MNFI in the summer of 2023.																																																																			
<b>62</b>	500 - Water	Nonstocked	54.0		Unspecified	No	This was formerly a flooded part of Dog Lake but since the dam was removed the water levels have slowly receded and vegetation is creeping in along the edges. Look at different years of imagery to view the changes.																																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>63</b>	6130 - Fir, Aspen, Maple	Sawtimber Well	2.7	70	81-110	N/A	Mixed species stand that has not been treated. Transitional ground that starts as upland along the west edge and becomes wet lowland as you move east. Aspen is more common along the west edge, fir and cedar are more common to the east. Many of the aspen are large diameter with lots of rot and cavities. The cedar is good quality and healthy, but tends to occur in clumps throughout the stand. Several live white ash poletimber stems are present. Areas of blowdown at the north end. Average ba/acre from 5 plots = 98 square feet. Leave this stand unmanaged due to the wet ground and because it provides a good buffer against beaver activity for the adjacent stream to the east.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	10	Pole/Log	8		Balsam Poplar	Trace		5 - 10 feet	Sapling
White Spruce	10	Log/Pole	13		Tag Alder	Low		Variable	Tall Shrub
Northern White Cedar	15	Log/Pole	13		Red Maple	Low		Variable	Sapling
Quaking Aspen	32	Log/XLog	15	70	White Ash	Low		Variable	Sapling
Balsam Poplar	2	Pole/Log	8		Balsam Fir	High		Variable	Sapling
Paper Birch	2	Log/Pole	11						
Balsam Fir	26	Pole	8						
White Ash	3	Pole	7						
<b>64</b>	4130 - Aspen	Sapling Well	21.5	25	Immature	N/A		Well-stocked stand that is dominated by poplar species in the overstory with not much other species diversity. Trace of elm (sapling) and paper birch (pole/sapling). Ash in abundant in many areas of the understory and appears to be a mix of white and black. This stand was clearcut in 1998-99 in the sale Weasel's Run (#53-003-96), bought by Georgia Pacific. Several wet areas are present as well as a few north-south running wet swales. Terrain gently slopes down to the east for the majority of the stand.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Balsam Poplar	21	Sapling/Pole	3		Black Ash	Medium	5 - 10 feet		Sapling
Red Maple	2	Sapling	2		Ironwood	Trace	5 - 10 feet		Sapling
Quaking Aspen	66	Sapling/Pole	3	25	White Spruce	Trace	Variable		Sapling
White Spruce	1	Sapling/Pole	3		Black Cherry	Trace	5 - 10 feet		Tall Shrub
Balsam Fir	10	Sapling/Pole	3		Balsam Fir	Medium	Variable		Sapling
					White Ash	Medium	Variable		Sapling
					Beech	Trace	5 - 10 feet		Sapling
					Red Maple	Trace	Variable		Sapling
					Serviceberry (Juneberry)	Trace	Variable		Tall Shrub
<b>65</b>	4319 - Mixed Upland Forest	Poletimber Poor	0.3	29	1-50	N/A	This was apparently an old well site according to former inventory notes, plugged in 1963. It has partially filled in and there are lots of seedlings, including some heavily browsed cedar.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Spruce	40	Pole/Sapling	6		Balsam Poplar	Medium		Variable	Sapling
Balsam Poplar	50	Pole/Sapling	6	29	Northern White Cedar	Low		< 5 feet	Seeding
Balsam Fir	10	Pole/Sapling	5		White Spruce	High		< 5 feet	Seeding
					White Spruce	Medium		Variable	Sapling
					Balsam Fir	Medium		Variable	Sapling
					White Ash	Low		Variable	Sapling
<b>66</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	25.5	70	51-80	N/A	Very wet stand that is poorly-stocked in many areas. Most trees display sub-optimal growth and are small diameter, however deciduous species appear to be better suited for this site. A lot of the cedar is in decline. Black ash used to be a large component of the overstory but it is now all dead and mostly fallen over. Black ash regeneration is abundant in some areas, especially at the north end. There are also some areas with a good amount of paper birch regeneration. Trace of elm (pole/log) in the overstory. Average ba/acre from 7 plots = 80 square feet. The southeast boundary of this stand is an old railroad grade.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	28	Pole	6	70	Black Ash	Medium		10 - 20 feet	Sapling
Red Maple	3	Pole	8		Paper Birch	Low		>20 feet	Sapling
Northern White Cedar	23	Pole/Log	8	96	American Elm	Trace		Variable	Sapling
Quaking Aspen	15	Log/Pole	12		White Spruce	Trace		Variable	Sapling
Paper Birch	5	Pole	6		Michigan Holly	Trace		5 - 10 feet	Tall Shrub
Balsam Poplar	15	Pole/Log	9		Balsam Fir	Medium		Variable	Sapling



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<b>67</b>	4319 - Mixed Upland Forest	Poletimber Well	3.6	70	81-110	N/A	Small upland island surrounded by lowland. Some areas of the stand do become wet, mostly along the edges. Possibly 2-aged as a few much larger red maple, aspen, and spruce are present. Trace of elm and cedar in the overstory. Average ba/acre from 6 plots = 82 square feet.																																																																																		
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<b>68</b>	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	6.6	94	81-110	N/A	Mixed species stand sitting on ground that is nearly an even mix of upland and lowland. Upland areas are more common in the middle of the stand, although lowland inclusions are also present. The far northwestern corner and eastern 1/3rd of the stand are mostly all lowland. Upland areas are mostly well-stocked while lowland areas are more poorly-stocked. Red maple quality is generally pretty high, with a few large diameter trees present (20"+ DBH). Quite a few large aspen have blown over throughout the years. Trace of red oak poletimber (how did it get here?). Average ba/acre from 7 plots = 94 square feet. No access to this stand. Too wet for management anyways.																																																																																		
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<b>69</b>	6239 - Mixed Emergent Wetland	Nonstocked	10.3	0	Unspecified	No	Previously a cedar stand that has been recently flooded due to a beaver dam near the south end on McMasters Creek. All of the cedar is now dead with quite a bit of blowdown along the east side of the stand. Only looked at the east edge of the stand, there are a few fir, spruce, and birch saplings as well as a little bit of alder. The entire west edge of the stand is an old railroad grade.																																																																																		
<b>70</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	4.2	94	51-80	N/A	Small island of aspen/fir adjacent to Dog Lake Flooding surrounded by tag alder marsh. Did not visit during 2026 YOY, used previous data.																																																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>71</b>	4119 - Mixed Northern Hardwoods	Poletimber Well	1.7	59	111-140	N/A	Younger hardwoods with a vein of older hemlock and cedar along the southwest edge. Mostly an upland stand except for some wet ground in the small finger that extends south. Trace of white spruce (pole) in the canopy. Average ba/acre from 4 plots = 120 square feet. No management, this stand was left as retention for the harvest in stand 121.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Sugar Maple		15	Pole/Sapling	5		Beech		
Paper Birch		1	Log/Pole	12		Trace		
Red Maple		45	Pole/Sap/Log	7	59	Variable		
Hemlock		10	Log/Pole/XLog	14		Sapling		
Balsam Fir		4	Pole	7		Balsam Fir		
Northern White Cedar		15	Pole/Log	8	105	Low		
Quaking Aspen		10	Log/Pole	11		Variable		
						Sapling		
<b>73</b>	4319 - Mixed Upland Forest	Poletimber Well	2.0	42	51-80	N/A	Mixed species stand that appears to have been cut at the same time as adjacent stand 77. Did not regenerate as well to aspen and there are still several areas in the stand with lower stocking. A few larger sugar maple poletimber stems are present that look like residual that wasn't cut during the harvest. 1 red oak sapling was found in the stand (where did it come from?). Average ba/acre from 4 plots = 78 square feet. An old road enters the stand at the southeast end, there also is another road that runs east-west through the middle.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Balsam Poplar		1	Pole	8		Balsam Poplar		
White Pine		1	Pole/Log	8		Trace		
White Spruce		2	Log/Pole	11		10 - 20 feet		
Red Maple		21	Pole/Sapling	6		Sapling		
Sugar Maple		5	Pole	8		Ironwood		
Balsam Fir		48	Pole/Log	8	42	Low		
Quaking Aspen		22	Pole/Log	8		Variable		
						Sapling		
<b>74</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	14.8	35	81-110	N/A	Well-stocked aspen stand that is just reaching merchantability. Most areas are in the 4-6" diameter classes however there are a few localized areas with better growth and diameters ranging from 8-10" DBH. Clearcut in 1989 in the sale Beaver Edge Aspen (#53-004-86), cut by Michael Bruning. Terrain is majority upland although there are quite a few areas of wet ground along the west edge and in the north half of the stand. A few clumps of residual hemlock and cedar, although rare in the stand. Trace of red oak (sap), tamarack (pole/sap), and black spruce (pole/sap) in the overstory. Average ba/acre from 9 plots = 108 square feet.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
White Ash		1	Sapling/Pole	4		Ironwood		
White Pine		1	Pole	8		Low		
Balsam Poplar		3	Pole/Sapling	6		10 - 20 feet		
Paper Birch		5	Sapling/Pole	4		Tall Shrub		
White Spruce		4	Pole/Sap/Log	7		Serviceberry (Juneberry)		
Red Maple		7	Sapling/Pole	4		Trace		
Bigtooth Aspen		3	Pole	7		Variable		
Quaking Aspen		51	Pole/Sap/Log	6	35	High		
Balsam Fir		25	Pole/Sapling	5		Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
<b>75</b>	4134 - Aspen, Spruce/Fir	Sapling Medium	40.3	7	Immature	N/A	Stand clear cut in 2016-17 in the sale Clute Ford Aspen (#53-012-16), bought and cut by Mike Damaestri. From imagery and cut stumps, it looks like this stand was previously a diverse mix of maple, aspen, fir, spruce, birch, and cedar. Regeneration up to this point is almost exclusively aspen, although there are some scattered patches of fir saplings and poletimber that were left uncut. Aspen regeneration is best at the north and south ends of the stand but lacking in the narrow, middle part of the stand. Numerous wet areas and drainages are present in the stand, none of which were excluded from the harvest (see site conditions layer for wet locations). Regeneration is not present in most of the wet areas, instead cattails, sedge, and alder are dominant. Browse is very heavy on maple sprouts, with very few looking like they will survive the browse. Birch regen is non-existent. Trace of beech and ironwood saplings. One red oak poletimber stem at the far southern end near Clute Road.			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
Balsam Poplar	6	Sapling	1		Black Cherry	Trace		10 - 20 feet	Tall Shrub	
Red Maple	3	Sapling	1		Common Blackberry	Medium		< 5 feet	Tall Shrub	
White Spruce	4	Sapling/Pole	3		Wild Red Raspberry	High		< 5 feet	Tall Shrub	
Balsam Fir	20	Sapling/Pole	3		Cattail spp.	Low		Unspecified	Non-Wood	
Quaking Aspen	67	Sapling	2	7	Tag Alder	Medium		5 - 10 feet	Tall Shrub	
					Willow spp.	Low		< 5 feet	Tall Shrub	
					White Spruce	Low		< 5 feet	Seeding	
					Balsam Fir	Medium		< 5 feet	Seeding	
<b>76</b>	6120 - Lowland Cedar	Poletimber Well	22.4	106	81-110	N/A		Highly variable lowland conifer stand. A vein of high quality cedar sitting on drier, upland ground is present in the middle of the northern part of the stand. A roughly 1 acre patch of younger A6 (guessing 40-50 years old) can be found at the far northwest edge of the stand, which borders an old railroad grade. The remaining parts of the stand, mostly the south half, are very wet with cedar growing on small sphagnum hummocks in between standing water. Cedar decline is noticeable in the wettest areas. Stocking declines in the two "fingers" of the stand at the southern end. The understory throughout most of the stand is thick with fir and/or alder, along with some blowdown, making this a difficult stand to walk through. Trace of elm (pole/log) and basswood (pole) in the overstory. Average ba/acre from 7 plots = 107 square feet. No management due to the wet ground.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height	Size
Balsam Fir	10	Pole	5		Black Ash	Medium	Variable		Sapling	
White Spruce	6	Log/Pole/XLog	12		Tag Alder	High	10 - 20 feet		Tall Shrub	
Northern White Cedar	59	Pole/Log	9	106	Balsam Fir	Medium	Variable		Sapling	
Paper Birch	4	Pole/Log	8		White Spruce	Trace	Variable		Sapling	
Red Maple	4	Log/Pole	11		Red Maple	Trace	Variable		Sapling	
Balsam Poplar	3	Pole/Log	8							
Quaking Aspen	14	Log/Pole/XLog	10							
<b>77</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	17.7	42	111-140	N/A	Nice aspen stand. Clearcut in 1982 by Champion in the sale Dog Lake Aspen Block (#53-002-77). Many areas along the swamp edges are primarily fir and red maple as it looks like beavers removed much of the aspen years ago. Small area of nice hardwood regeneration at the far southern end. Trace amounts of residual hemlock. A clump of 3 8" white oak were found east of the interior G stand. Also, an old road leads east out of the opening and ends at a pit near the base of a small hill (possible old foundation?). Mostly an upland stand except for along the swamp edges as well as a large drainage north of the interior G stand (see site conditions layer). Average ba/acre from 15 plots = 115 square feet. Ready to harvest but no access at this time as significant road building would be required. Also, if the intent of the original wildlife plan for Dog Lake is to be honored, then this stand should be left alone as habitat for red-shouldered hawks and other wildlife that benefit from mature closed canopy deciduous forests.			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height	Size
Paper Birch	1	Pole	6		Ironwood	Medium			>20 feet	Sapling
White Spruce	1	Pole/Log	8		White Ash	Low		>20 feet	Sapling	
Ironwood	1	Pole/Sapling	5		Paper Birch	Trace		>20 feet	Sapling	
Quaking Aspen	56	Pole/Log	8	42	Balsam Fir	Medium		Variable	Sapling	
Sugar Maple	3	Pole	7		Serviceberry (Juneberry)	Trace		Variable	Tall Shrub	
Balsam Poplar	1	Pole	8		Sugar Maple	Low		>20 feet	Sapling	
Balsam Fir	18	Pole/Log	8		Beech	Trace		Variable	Sapling	
Red Maple	16	Pole/Sapling	6		White Spruce	Trace		10 - 20 feet	Sapling	
Bigtooth Aspen	3	Log/Pole	10		Red Maple	High		>20 feet	Sapling	
					Black Cherry	Trace		Variable	Tall Shrub	



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<b>78</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	14.3	51	141-170	N/A	<p>Nice aspen with a heavy fir component. Diameters in the east half of the stand tend to be larger, the west half is smaller with a lot more fir in the overstory. Lots of fir blowdown on the west edge from the recent clearcut to the west. Mostly an upland stand although there is wet ground all along the east edge. There are also three small vernal pools in the stand (see reference point layer). Trace of white spruce log/xlog and cedar (log/pole), mostly along the swamp edge. Average ba/acre from 12 plots = 161 square feet.</p> <p>An old road enters the middle of the stand and appears to continue northeast into the adjacent marsh. There are some areas in the middle of the stand where the ground looks manipulated and could possibly be very old foundation remnants? Additional site visits are needed.</p>																																																														
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<b>79</b>	3105 - Mixed Upland Herbaceous	Nonstocked	1.8		Unspecified	No	<p>Old tordon opening that has not been managed for many years and is slowly growing back in with seedlings/saplings along the edges. The grass in the stand looks like reed canary grass? Quite a bit of spotted knapweed is present.</p>																																																														
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<b>80</b>	6229 - Mixed lowland shrub	Nonstocked	5.4		Unspecified	No	<p>Nice diversity of lowland shrubs. The west end becomes more forested. Only looked at this stand from the edges.</p>																																																														
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<b>81</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	46.4	51	111-140	N/A	Moderate quality stand of primarily aspen, fir, and spruce. Dense stocking in many areas, especially north of Clute Road, which has suppressed diameter growth. There are pockets north of the road that are barely merchantable. Diameters south of the road are larger, old records indicate this area may have been cut a few years earlier than the north half. Scattered pockets of blowdown are present, some are visible on newer leaf-off imagery. White spruce is more prevalent south of the road. White ash is common throughout the stand, and while the majority have died due to EAB, there appears to be a small percentage of poletimber stems that are still alive. Areas of wet ground are present in the stand, including some drainages, but it is difficult to tell with the current snow on the ground. Terrain is highest in the central part of the stand and gradually slopes down to the north, south, and east. Trace of cedar (log), paper birch (pole/log), sugar maple (pole), black cherry greater than 5" DBH, and white spruce greater than 18" DBH. Average ba/acre from 20 plots = 115 square feet.																																																																			
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<b>82</b>	6120 - Lowland Cedar	Sawtimber Well	19.8	91	201+	N/A	High quality, densely stocked cedar stand. No cedar decline noted. Upland along the east and west edges but the remainder of the stand is lowland, although the ground is not nearly as wet as the adjacent cedar stand to the south and north. Average ba/acre from 14 plots = 281 square feet. A small stream flows north through the middle of the stand. In stand 117, just south of the where the stream enters into this stand, is a small pond with floating bog mats.																																																																			
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<b>83</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	19.4	96	111-140	N/A	Red maple dominated stand that is mostly upland except for a wet drainage that flows north through the middle of the stand. Hummocky, pit and mound type ground is present in many areas. The east half of the stand tends to have better quality red maple, and is where most of the basswood is located. The fir and birch component is more prevalent in the west half. Trace of beech (log/xlog) in the overstory. Average ba/acre from 9 plots = 134 square feet. No access to this stand, leave unmanaged.																																																																			
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<b>84</b>	6239 - Mixed Emergent Wetland	Nonstocked	41.8		Unspecified	No	McMasters Creek flows through the stand. Dominated by sedge hummocks. Currently dammed by beavers in the middle. 98DOQ imagery shows the remnants of an old road that travels east-west through the middle.																																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**85** 42350 - Upland Hemlock Sawtimber Well 6.8 122 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	2	Pole/Sapling	5		Sugar Maple	Medium	>20 feet	Sapling
Northern White Cedar	3	Log/Pole	12		Ironwood	Medium	>20 feet	Sapling
Balsam Fir	4	Pole	6		Pin Cherry	Trace	>20 feet	Pole
White Spruce	1	Pole/Log	8		Yellow Birch	Trace	>20 feet	Sapling
Paper Birch	14	Pole/Sapling	6	42	White Ash	Low	Variable	Sapling
Hemlock	54	Log/Pole/XLog	14	122	Paper Birch	Medium	>20 feet	Sapling
Yellow Birch	2	Pole	6		Balsam Fir	Low	Variable	Sapling
Red Maple	10	Pole/Sap/Log	6		Red Maple	High	Variable	Sapling
Quaking Aspen	10	Pole	7		Beech	Low	Variable	Sapling

Hemlock dominated stand, most of which appears healthy. It looks like all species were cut out of this stand, except for cedar and hemlock, at the same time as when stand 77 to the north was clearcut. Roughly 1 acre at the southern end was not included in the harvest and is a dense clump of hemlock with some scattered log-size red maple and birch mixed in. Hardwood species, especially paper birch, regenerated very well in areas where the hemlock BA is lower. Average ba/acre from 6 plots = 130 square feet. Mostly flat terrain. Ground becomes wet along the east and west edges of the stand.

**86** 6120 - Lowland Cedar Poletimber Medium 15.5 91 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	69	Pole/Log	8	91	Balsam Fir	Medium	Variable	Sapling
Paper Birch	3	Pole	7		Black Ash	Medium	5 - 10 feet	Sapling
Tamarack	1	Pole	8		Michigan Holly	Low	5 - 10 feet	Tall Shrub
Balsam Poplar	5	Pole	7		Tag Alder	Full	10 - 20 feet	Tall Shrub
Black Spruce	2	Pole	6		Red Osier Dogwood	Low	5 - 10 feet	Tall Shrub
Balsam Fir	14	Pole/Sapling	5		American Elm	Trace	>20 feet	Sapling
White Spruce	6	Pole/Log	8		Paper Birch	Trace	>20 feet	Sapling

Very wet, poor quality stand. Most of the cedar is in decline. Stocking decreases the further south you go in the stand with an associated increase in the amount of alder in the understory. Black ash poletimber used to be common throughout the stand but it is now all dead from EAB. Trace of red maple (pole/log), white pine (log), and quaking aspen (log) in the overstory. Average ba/acre from 9 plots = 56 square feet. This is a difficult stand to walk through, probably not worth visiting again for many years.

**88** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 10.0 103 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	49	Log/Pole	10	103	Black Ash	Trace	10 - 20 feet	Sapling
Yellow Birch	3	Pole	5		Yellow Birch	Low	>20 feet	Sapling
Hemlock	1	Pole/Log	8		Beech	Trace	Variable	Sapling
Red Maple	13	Pole/Log	8		Paper Birch	Medium	>20 feet	Sapling
American Elm	1	Pole	5		Tag Alder	Medium	Variable	Tall Shrub
Paper Birch	16	Pole/Sapling	6		Red Maple	Medium	>20 feet	Sapling
White Spruce	4	Pole	6		Balsam Fir	High	Variable	Sapling
Balsam Fir	13	Pole	6		American Elm	Trace	>20 feet	Sapling

Generally a poor quality lowland stand with a lot of cedar that is in decline. Lots of older windthrow, some of which is cedar, but a lot of it is also black ash poletimber, which used to be a major component of the overstory before EAB arrived. Paper birch has regenerated well in many of the pockets that were opened up following the windthrow. Stocking declines along the west edge of the stand and there is a good representation of birch regeneration (both paper and yellow) all along this edge. A few small inclusions of upland are present, mostly at the far northern end, and have some larger red maple and paper birch. Trace of sugar maple (pole) and white pine (log/xlog) in the overstory. Average ba/acre from 6 plots = 113 square feet. Did not visit the far SE corner but from imagery there looks to be a lot of hemlock in that area. An old road is present along the northern edge of the stand, is mostly overgrown, and appears to be preventing water from stand 46 to the north from draining into this stand.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																						
<b>89</b>	6130 - Fir, Aspen, Maple	Sawtimber Well	4.1	78	111-140	N/A	Small strip of mostly aspen, spruce, and fir that starts as upland in the north half but becomes wet in the south half. Possibly 2 age classes of aspen in the stand as there a few areas with much larger trees (18"+). Many of the aspen have lots of rot and are good wildlife trees. Scattered white ash poletimber stems that are still alive. Average ba/acre from 4 plots = 138 square feet. Leave this stand unmanaged due to wet ground.																																																																						
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<b>90</b>	6239 - Mixed Emergent Wetland	Nonstocked	5.6	0	Unspecified	No	Dead and dying cedar as a result of water drainage issues to the east.																																																																						
<b>91</b>	42330 - Upland Fir	Poletimber Well	4.2	38	111-140	N/A	Small stand of nearly pure fir and spruce. It was cut at the same time as adjacent stand 96 to the south but it appears beavers removed the majority of the aspen long ago. Mostly upland except for along the swamp edge. Trace of red maple (log/pole) and paper birch (log). Average ba/acre from 5 plots = 138 square feet. A small pocket of larger trees is present at the east end and used to be a part of stand 59 in Comp 12 before it was cut. Leave this stand unmanaged as it provides a good buffer for McMasters Creek.																																																																						
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<b>92</b>	500 - Water	Nonstocked	6.6		Unspecified	No	Large beaver flooding with the dam just south of the road and beavers are building dams on the road.																																																																						
<b>93</b>	6124 - Lowland Spruce-Fir	Sapling Poor	11.3	35	1-50	N/A	Very wet, poorly-stocked stand. Black ash poletimber used to be the most common tree in the stand but it is now all dead from EAB. Black ash regeneration is present in some areas. West McMasters Creek flows through the stand. From old imagery it looks like this stand may have been flooded at one time which may explain the general lack of large trees. I only walked through the northern half of the stand so species percentages are still largely an estimate at this time.																																																																						
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<b>94</b>	310 - Herbaceous Openland	Nonstocked	2.4		Unspecified	Managed Opening	It looks like this stand has been mowed sometime in the last couple of years. Quaking aspen has sprouted throughout the north half but is being heavily browsed.																																																																						
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<b>95</b>	4319 - Mixed Upland Forest	Poletimber Well	5.8	85	81-110	N/A	Mixed species stand that occupies a small strip adjacent to wetlands. Most of the stand sits on a slight side-slope and transitions to lowland along the west edge. Good quality spruce. Lots of fir blowdown, especially in the portion of the stand north of Clute Road. A variety of quaking aspen sizes are present. White ash poletimber stems that are still alive are scattered throughout. Trace of cedar (log/pole). Average ba/acre from 6 plots = 108 square feet. This stand serves well as a buffer for adjacent McMasters Creek, do not manage.																																																																																				
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<b>96</b>	4319 - Mixed Upland Forest	Poletimber Well	28.2	38	111-140	N/A	Densely stocked stand of primarily fir and aspen. The dense stocking is likely the reason for the diameters being on the small side despite the stands age. A few scattered larger stems of aspen, red maple, fir, and spruce are scattered throughout, more common near Clute Road. Scattered drainages and wet areas are present, the southern finger in particular becomes very wet. Trace of cedar (log), paper birch (pole), black spruce (pole/sap), and black cherry (pole) in the overstory. Average ba/acre from 12 plots = 128 square feet. This stand likely needs another 2 entries of growth before being ready for a harvest. Protect all water features at that time.																																																																																				
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<b>97</b>	629 - Mixed non-forested wetland	Nonstocked	22.5		Unspecified	No	Two creeks converge at the west end of this stand, forming West McMaster's Creek, which flows east/northeast through the remainder of the stand. Periodically flooded due to beaver activity, at this time the middle part of the stand has been dammed by beavers. Only looked at the edges of this stand.																																																																																				
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<b>98</b>	6239 - Mixed Emergent Wetland	Nonstocked	18.7		Unspecified	No	West McMasters Creek and another creek from the southeast merge together in this stand. Currently dammed by beavers at Clute Road which is backing up water substantially. Only walked through the west edge of the stand which has a lot of alder. From imagery it looks like most shrubs are on the perimeter with more of an open wetland nature in the interior.																																																																																				
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<b>99</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	4.5	85	111-140	N/A	Small northern hardwood sitting on a ridgeline with slopes going down to the east and west on each side. Good quality timber in the middle but quality declines along the edges. Red maple tends to be more common on the edges with more sugar maple and basswood in the interior. Fir is mostly on the western stand edge. Trace of hemlock (log) and white spruce (pole) in the canopy. Average ba/acre from 5 plots = 114 square feet. Not available for management until the adjacent aspen stand to the south is ready to be clearcut again. Even so, it might be beneficial to just leave this stand alone to develop naturally.																																																																												
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<b>100</b>	6120 - Lowland Cedar	Poletimber Poor	6.7	105	51-80	N/A	Wet lowland drainage that is nearly a non-forested stand. It looks like black ash used to be the dominant tree species in the canopy but they are now all dead and fallen over. However, there has also been mortality to other species in the stand such as basswood and maple suggesting water levels have increased over the years. The only area that is well-stocked is at the far northern end which is mostly cedar. Heavy browse pressure on the black ash regeneration has kept a lot of stems under 5 feet tall. Heavy sedge component throughout. Average ba/acre from 4 plots = 55 square feet.																																																																												
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<b>101</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	53.3	105	111-140	N/A	Nice hardwood stand surrounded by lowland. Generally high quality and well-stocked, with the only exceptions being the north and west edges which decline in quality and stocking and transition to more red maple. The fir component is mostly along these edges as well. A small inclusion of upland cedar can be found at the northeast corner. Hemlock is scattered throughout the east half, and most common in the southeast part of the stand. White ash used to be a common component of the overstory, around 5%, but is now all dead from EAB. Most of the large diameter beech have BBD, with many already dead. Three long, linear drainages flow north through the stand and are easily observed on leaf-off imagery. Average ba/acre from 17 plots = 133 square feet. No access to this 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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**102** 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 9.3 74 111-140 N/A

Mixed species stand that starts out mostly dry at the north end but gets progressively wetter as you head south. Cedar is much more common in the north half and is generally good quality and healthy. The quaking aspen is generally poor quality with several stems appearing close to death. Scattered pockets with a heavy understory of fir. Not well-stocked in all areas, particularly along the west and south edges. Average ba/acre from 5 plots = 130 square feet. Wet stand, no management.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	1	Log/Pole	12		Black Ash	Low	5 - 10 feet	Sapling
Quaking Aspen	32	Log/Pole/XLog	13	74	Balsam Fir	High	Variable	Sapling
Balsam Fir	18	Pole/Sap/Log	6		White Ash	Low	Variable	Sapling
Northern White Cedar	19	Log/Pole	10		Tag Alder	Low	Variable	Tall Shrub
Black Spruce	2	Pole	8		Black Ash	Medium	< 5 feet	Seeding
Paper Birch	3	Pole	8		White Spruce	Trace	Variable	Sapling
Balsam Poplar	2	Log	13					

**103** 4119 - Mixed Northern Hardwoods Sawtimber Well 11.3 86 81-110 N/A

Mixed species hardwood stand sitting on a ridgeline. The southern 1/3rd of the stand is not as well-stocked as there used to be quite a few aspen in this area that have since died and fallen over. Timber quality increases as you move north in the stand. Trace of hemlock (log). Average ba/acre from 6 plots = 110 square feet. No access to this stand as it is blocked by wet ground on all sides.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	2	Log	13		Ironwood	Low	Variable	Sapling
Balsam Fir	4	Pole/Log	8		Beech	Medium	Variable	Sapling
Basswood	9	Log/Pole	13		Sugar Maple	Trace	>20 feet	Sapling
Sugar Maple	24	Pole/Log	8		Balsam Fir	Low	Variable	Sapling
Red Maple	46	Log/Pole/XLog	10	86	Striped Maple	Trace	>20 feet	Sapling
Quaking Aspen	6	Log/XLog	15					
Paper Birch	8	Log/Pole	10					
Northern White Cedar	1	Pole/Log	9					

**104** 4113 - R.Maple, Conifer Sawtimber Well 10.7 96 141-170 N/A

Multi-aged hardwood stand with a significant component of hemlock, most of which is along the north and west edges of the stand, although there are some clumps in the middle as well. Patches of younger hardwoods are present in the west half of the stand. A few very large diameter yellow birch and maple are scattered throughout. The basswood is high quality and vigorous. Two drainages in shallow ravines flow north through the stand, one just west of the middle part of the stand, the other at the east end. Trace of black cherry (pole) and white ash (pole) in the overstory. Average ba/acre from 6 plots = 158 square feet. No access to this stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	13	Log/XLog/Pole	15		Red Maple	Trace	>20 feet	Sapling
Sugar Maple	6	Pole/Sap/Log	7	57	White Ash	Low	Variable	Sapling
Yellow Birch	2	Log/XLog/Pole	14		Balsam Fir	Low	Variable	Sapling
Red Maple	50	Log/Pole	10	96	Sugar Maple	Medium	>20 feet	Sapling
Ironwood	1	Pole	6					
Paper Birch	1	Pole/Log	8					
Northern White Cedar	9	Log/Pole	10					
Balsam Fir	1	Pole	5					
Hemlock	17	Log/Pole/XLog	13	132				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																									
<b>105</b>	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Well	3.5	214	201+	N/A	High quality, healthy hemlock stand that transitions down to lowland along the west and south edges, where cedar becomes the dominant part of the canopy. Current stand age verified from a 17" DBH hemlock, although the rings were so small it was difficult to count so it's likely the age is older. Trace of white spruce (log/xlog) in the canopy. Average ba/acre from 3 plots = 203 square feet. A small stream flows north through the western edge of the stand.																																																																									
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<b>106</b>	42320 - Upland Spruce	Poletimber Well	1.4	91	111-140	N/A	Well-stocked stand of predominantly white spruce. Mostly an upland stand except for a small channel of lowland alder that splits the stand into two pieces, the majority of the stand being east of this channel. Trace of red maple (log) and white ash (pole). Average ba/acre from 4 plots = 123 square feet. No management due to the isolated nature of the stand.																																																																									
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<b>107</b>	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	6.2	98	201+	N/A	Cedar stand with supercanopy aspen that are overtopping the cedar in most places. Most of the cedar is good quality and healthy. The only area without much aspen is in the northeast corner. Areas of upland along the edges. A wet drainage enters the stand at the south end, flowing north, and appearing to spread out as it gets to the middle of the stand. Even so, the ground is not very wet in most places. Average ba/acre from 5 plots = 226 square feet.																																																																									
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<b>108</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	5.5	100	51-80	N/A	Very wet stand with pockets of tamarack and a sphagnum bog understory in the middle. Cedar tends to be most common along the east and northwest edges. There are scattered areas of poor stocking with a heavy component of young fir and alder, more so in the western half of the stand. Average ba/acre from 4 plots = 5 square feet. An old railroad grade runs north-south through the middle of the stand. Very wet stand, no management possible.																																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>109</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	29.1	37	81-110	N/A	<p>Emerging aspen poletimber stand with a significant component of fir. Clearcut in 1987 in the sale Swamp Knoll Aspen (#53-006-86), cut by K&amp;R Logging. Aspen regenerated well in some, but not all places, as there are several areas dominated by fir without much aspen at all. Some areas have a nice understory of red and sugar maple, tending to be more common in the south half of the stand, while understory hardwoods shift towards more of an ash/ironwood mix in the north half. Trace of elm (pole), red pine (log/pole), and black cherry (pole) in the canopy. Trace of hawthorn as well (one individual observed). Average ba/acre from 13 plots = 99 square feet. Mostly an upland stand except for some areas of wet ground along the east and west edges as the stand transitions to lowland. There is also a lot of wet ground in the narrow part towards the south end of the stand. This stand will likely be ready for a treatment next entry.</p> <p>Remnants of an old railroad grade that runs north-south can be found in the southwest part of the stand. The grade was cut through some of the slopes and continues north into stand 112.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Spruce	3	Pole/Log	8		White Spruce	Trace		Variable	Sapling
Balsam Poplar	5	Pole/Log	8		Ironwood	Medium		Variable	Sapling
Red Maple	4	Pole/Sapling	5		Maple Leaved Viburnum	Low		5 - 10 feet	Tall Shrub
Paper Birch	1	Pole/Sapling	5		Red Maple	High		10 - 20 feet	Sapling
Quaking Aspen	50	Pole/Sapling	7	37	Beech	Trace		Variable	Sapling
White Pine	1	Pole/Log	8		American Elm	Trace		>20 feet	Sapling
Balsam Fir	36	Pole/Log	8		Serviceberry (Juneberry)	Trace		Variable	Tall Shrub
					Balsam Fir	Medium		Variable	Sapling
					Red Pine	Trace		Variable	Sapling
					White Ash	Medium		Variable	Sapling
					Black Cherry	Low		Variable	Tall Shrub
					Sugar Maple	Medium		>20 feet	Sapling
					White Pine	Trace	Variable	Sapling	
					Paper Birch	Trace	>20 feet	Sapling	
<b>110</b>	6120 - Lowland Cedar	Poletimber Well	3.2	95	201+	N/A	<p>Generally good quality, healthy cedar stand except for some scattered decline in the southeast portion of the stand. Lowland ground but not overly wet in all places. More hemlock in the north half. Average ba/acre from 3 plots = 245 square feet. No management due to the inability to regenerate hemlock and cedar.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	1	XLog/Log	18		Beech	Trace		Variable	Sapling
Red Maple	3	Log	11		Ironwood	Trace		Variable	Sapling
Paper Birch	4	Log/Pole	10		White Ash	Low		Variable	Sapling
White Spruce	5	Log	14		Balsam Fir	Low		Variable	Sapling
Northern White Cedar	70	Pole/Log	8	95					
Hemlock	15	Log/Pole	12						
Balsam Fir	2	Pole	8						
<b>111</b>	42330 - Upland Fir	Poletimber Well	2.1	43	81-110	N/A		<p>Thick fir with a light supercanopy of very large aspen. A few of the aspen are 25"+ DBH. It's likely that there were once more aspen in the stand and most died years ago, with the fir naturally recruiting into the overstory. Trace of balsam poplar (log) and paper birch (log). Average ba/acre from 3 plots = 97 square feet. No access to this stand.</p>	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
White Pine	2	Pole/Log	8		Balsam Fir	Full	>20 feet		Sapling
Balsam Fir	70	Pole/Sapling	5	43	White Ash	Trace	Variable		Sapling
Quaking Aspen	15	Log/XLog	16	86	Beech	Low	>20 feet		Sapling
Red Maple	8	Pole/Log	8		Sugar Maple	Trace	>20 feet		Sapling
Sugar Maple	1	Pole	5		Ironwood	Trace	Variable		Sapling
White Spruce	4	Pole	6						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>112</b>	6120 - Lowland Cedar	Poletimber Medium	20.2	105	51-80	N/A	Very poor quality, wet swamp with water that drains to the north and northwest, with the northwest drainage forming a stream that continues on into stands 105 and 97. Lots of older cedar blowdown in the stand. Most of the cedar that is still standing is in decline. Average ba/acre from 4 plots = 65 square feet. Very difficult stand to get through, no need to visit this stand again for many years. Purple loosestrife is present on the west edge of the stand adjacent to Osmun Road.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
White Spruce		5	Log/Pole	13		Balsam Poplar		
Northern White Cedar		55	Pole/Log	9	105	Michigan Holly		
Paper Birch		16	Pole	7		Tag Alder		
Red Maple		9	Log/Pole	12		Paper Birch		
Balsam Fir		15	Pole	5		Balsam Fir		
						Willow spp.		
						Black Ash		
						Red Maple		
						Cattail spp.		
						Unspecified		
						Non-Wood		
<b>114</b>	6223 - Inundated Shrub Swamp	Nonstocked	10.6		Unspecified	No	Mixed wetland species with a heavy tag alder and willow component. Flooded year round with water levels controlled by Osmun Road and occasionally by beavers. Scattered dead timber toward the south side of the stand near the adjacent cedar swamp. Some purple loosestrife has shown up in this stand in recent years, mostly on the edge near Osmun Road.	
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
Tag Alder		Medium	Variable	Tall Shrub				
Willow spp.		Medium	5 - 10 feet	Tall Shrub				
Red Osier Dogwood		Low	5 - 10 feet	Tall Shrub				
Michigan Holly		Low	5 - 10 feet	Tall Shrub				
<b>115</b>	4319 - Mixed Upland Forest	Sawtimber Well	21.4	98	141-170	N/A	Mixed species stand of moderate quality. Slightly more upland than lowland in the stand but there are drainages and areas of wetter ground scattered throughout. My best guess would be around 60% upland to 40% lowland. The cedar is healthy and good quality, and can be found both individually and in small pockets. A few of the aspen are very large, in excess of 20" DBH. Trace of hemlock (pole/log), balsam poplar (log), and black spruce (pole) in the overstory. Average ba/acre from 8 plots = 151 square feet. No access to this stand. Leave unmanaged.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Paper Birch		8	Pole/Log	9		Tag Alder		
Red Maple		33	Log/Pole	10	98	Balsam Fir		
Balsam Fir		10	Pole	7		White Ash		
Quaking Aspen		13	Log/XLog	15				
White Spruce		8	Log/Pole	12				
Northern White Cedar		28	Pole/Log	9				
<b>116</b>	42330 - Upland Fir	Poletimber Well	2.3	55	81-110	N/A	Small stand of primarily fir that was manually cut by DNR personnel in 1968-69. Diameters are small for the stand age. Average ba/acre from 4 plots = 98 square feet. No access to this stand, leave unmanaged.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Balsam Poplar		10	Pole/Sapling	6		Tamarack		
White Pine		3	Pole/Sapling	6		White Spruce		
Black Spruce		3	Sapling/Pole	4		Black Spruce		
Balsam Fir		82	Pole/Sapling	6	55	White Ash		
White Spruce		2	Sapling/Pole	4		Tag Alder		
						Balsam Fir		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**117** 6120 - Lowland Cedar Poletimber Well 258.8 105 171-200 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	1	Pole/Log	8	
Hemlock	1	Log/Pole	12	
White Pine	3	Log/XLog	15	
Balsam Fir	10	Pole	6	
Red Maple	2	Log/Pole	10	
Black Spruce	9	Pole/Log	8	
Northern White Cedar	71	Pole/Log	9	105
Balsam Poplar	1	Log	13	
Tamarack	2	Pole/Log	8	

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

Large cedar stand of varying quality. Higher quality areas tend to be along the edges adjacent to upland stands. Some localized areas of decline noted in the wettest areas. Many areas with a dense fir understory. At least 2 streams flow north through the stand. Trace of yellow birch (pole/log), basswood (log/pole), and quaking aspen (log) in the overstory. Average ba/acre from 15 plots = 190 square feet. Too wet, no management.

**118** 4134 - Aspen, Spruce/Fir Poletimber Well 35.6 37 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	7	Pole/Sapling	5	
Balsam Fir	32	Pole/Sap/Log	6	
Quaking Aspen	51	Pole/Sapling	6	37
White Pine	1	Pole/Log	8	
Paper Birch	1	Sapling/Pole	4	
White Spruce	2	Pole/Sap/Log	6	
Balsam Poplar	6	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Trace	Variable	Tall Shrub
White Spruce	Trace	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
White Ash	High	Variable	Sapling
Ironwood	Low	Variable	Sapling
Michigan Holly	Trace	10 - 20 feet	Tall Shrub
Beech	Trace	Variable	Sapling
Red Maple	Low	< 5 feet	Sapling
Serviceberry (Juneberry)	Trace	Variable	Tall Shrub

Moderate quality aspen stand. Clearcut in 1987 in the sale Swamp Knoll Aspen (#53-006-86, K&R Logging). Regenerated well although there are some areas where fir is dominant and there isn't much aspen. Diameters tend to vary quite a bit as well. Long, linear wet swales are present in the south half (see 98DOQ imagery), with one swale extending the entire length of the stand, just east of the interior U stand (see site conditions layer). Clumps of holly and more diverse regeneration (including a few yellow birch!) can be found at the far southern end of the swales, where the ground is the wettest. White ash used to be a component of the overstory but it looks like most have died from EAB, although I did notice a few live poletimber stems. Trace of cedar (log), red pine (pole/log), black spruce (pole), and yellow birch (pole/sap) in the overstory. Average ba/acre from 15 plots = 101 square feet. This stand may be ready for a harvest next entry. Protect all water features. The long swale will have to be crossed using timber mats or slash.

**121** 6112 - Lowland Aspen Sapling Medium 12.1 6 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	65	Sapling	1	6
Red Maple	2	Sapling	1	
Balsam Fir	1	Sapling	1	
Balsam Poplar	8	Sapling	1	
White Spruce	1	Sapling	1	
Sugar Maple	3	Sapling	1	
Paper Birch	20	Sapling	1	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Trace	5 - 10 feet	Tall Shrub
Common Blackberry	Medium	< 5 feet	Tall Shrub
Willow spp.	Low	10 - 20 feet	Tall Shrub
Pin Cherry	Low	10 - 20 feet	Tall Shrub

This stand was cut in 2018 by Mike Dameastri (Diversified Forestry) in the sale Big Swale Swamp Plus (#53-009-16-01). The stand is about a 50/50 mix of upland and lowland. Two long north-south running drainages run through the middle but weren't protected in the harvest. Upland can be found along the north, east, and west edges. Regeneration has come back well in the south half of the stand, mostly aspen but also a nice amount of paper birch, which is most abundant along the far southern edge near the road. Some sugar maple can also be found along this southern edge. The north half has not regenerated nearly as well and some of the aspen show browse damage. More conifers were noted in this half. There are also several wet areas that have not regenerated and are now filled with sedges.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>124</b>	4110 - Sugar Maple Association	Sawtimber Well	32.4	105	81-110	N/A	Nice hardwoods with some large diameter trees. Thinned in the winter of 2008 in the sale Swamp Edge Hardwoods (Dyer's Sawmill, #53-009-06). BAs tend to vary quite a bit, some areas were only lightly thinned while other areas were cut heavily. Heavy ironwood understory in most places. The red maple can be found mostly in the northwestern part of the stand. Trace of red pine (log/xlog), white pine (log/xlog), quaking aspen (log), bigtooth aspen (log), balsam fir (pole), white spruce (pole), and paper birch (log). Average ba/acre from 9 plots = 108 square feet. Large stick nest in a paper birch in the northern part of the stand (see reference layer). A few seasonally wet areas along the north and east edges. This stand may be ready for a thinning next entry.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	55	Log/Pole/XLog	12	105	Ironwood	High		10 - 20 feet	Sapling
Ironwood	1	Pole	6		Balsam Fir	Low		5 - 10 feet	Sapling
Basswood	34	Log/XLog	14		White Spruce	Trace		Variable	Sapling
Hemlock	2	Log/XLog	14		Sugar Maple	Trace		5 - 10 feet	Sapling
Red Maple	6	Log	12		Beech	Low		5 - 10 feet	Sapling
Beech	2	Log/XLog	14		White Ash	Medium		Variable	Sapling
					Leatherwood	Low		< 5 feet	Tall Shrub
<b>126</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	4.7	42	111-140	N/A	Narrow strip of aspen that was previously cut by Wildlife Division for winter deer food. Well-stocked and pretty good quality. Some areas are heavy to fir. A few scattered paper birch, mostly in the southern 1/3rd of the stand. Terrain slopes gently down to the northeast, with the ground becoming very wet along the east/northeast edge. Scattered cedar as well as trace amounts of white pine (xlog), hemlock (log/xlog), and yellow birch (pole) can be found along this wet edge. Average ba/acre from 7 plots = 130 square feet. An old railroad grade runs east/west through the northern part of the stand and then turns southeast just inside the boundary of the cedar stand (#117), parallel to the boundary of this stand. Hold ten years and treat with adjacent aspen stands to the east.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	2	Pole	8		Sugar Maple	Trace		>20 feet	Sapling
Northern White Cedar	1	Log/Pole	12		Balsam Fir	Medium		Variable	Sapling
Bigtooth Aspen	5	Log/Pole	11		Red Maple	Medium		>20 feet	Sapling
Red Pine	1	Log/XLog	17		Ironwood	Trace		10 - 20 feet	Sapling
Balsam Poplar	2	Pole	7		Paper Birch	Trace		>20 feet	Sapling
Quaking Aspen	44	Pole	8	42					
Balsam Fir	27	Pole	6						
Red Maple	18	Pole	7						
<b>129</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	8.9	38	111-140	N/A	Moderate quality aspen stand that still has a lot of small diameter stems for its age. Heavy fir component both in the overstory and understory, which is likely stifling growth throughout the stand. The red maple understory is not uniform but tends to be in clumps throughout the stand. Topography in the east half of the stand is ridge and swale, with a long north-south wet swale that runs the entire length of the stand. The west half of the stand flattens out some, although there is wet ground along the western edge adjacent to the cedar swamp. Some scattered larger diameter white pine at the north end of the stand. Average ba/acre from 7 plots = 124 square feet. This stand needs at least another 10 years of growth. Manage together with adjacent stand 131.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	2	Pole/Log	8		Red Maple	Medium		Variable	Sapling
Balsam Fir	33	Pole/Sapling	5		Balsam Fir	High		Variable	Sapling
Quaking Aspen	49	Pole/Sapling	5	38	White Spruce	Trace		Variable	Sapling
Red Maple	5	Pole/Sapling	5		White Ash	Low		Variable	Sapling
Balsam Poplar	8	Pole/Sapling	5		Paper Birch	Trace		>20 feet	Sapling
White Spruce	3	Pole/Sapling	5		Tag Alder	Trace		Variable	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
<b>131</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	27.3	47	111-140	N/A	Moderate quality aspen stand with a heavy component of fir. Aspen diameters vary considerably throughout the stand, with some areas still having a lot of small diameter stems. This is likely due to competition with the fir. Maple and other hardwoods are more frequent in the west half of the stand. Topography in the stand is a series of north-south running ridge and swales, with most of the swales being very wet. Some of these wet swales are evident on leaf-off imagery and have been captured in the site conditions layer but not all of them. Small amounts of residual cedar and hemlock are present. Trace of white pine (pole/sap), red pine (pole), black ash (pole), and white ash (pole). A single scotch pine can be found in the old landing at the north end. Average ba/acre from 14 plots = 114 square feet. This stand needs another 10 years of growth before being ready for a harvest. The treatment should include adjacent aspen stands to the east, west, and south.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		6	Pole/Sapling	6		Red Maple		Medium	>20 feet	Sapling
Quaking Aspen		46	Pole/Sap/Log	7	47	Tag Alder		Trace	10 - 20 feet	Tall Shrub
Hemlock		1	Log/Pole	13		Paper Birch		Trace	>20 feet	Sapling
Balsam Fir		35	Pole/Sapling	6		Serviceberry (Juneberry)		Trace	Variable	Tall Shrub
White Spruce		1	Pole/Sapling	6		Sugar Maple		Trace	>20 feet	Sapling
Balsam Poplar		9	Pole/Log	8		Ironwood		Trace	Variable	Sapling
Northern White Cedar		2	Log/Pole	11		Balsam Fir		High	Variable	Sapling
						Nannyberry		Trace	Variable	Tall Shrub
						Beech		Trace	Variable	Sapling
						White Ash		Low	Variable	Sapling
						Willow spp.		Trace	Variable	Tall Shrub
						Black Ash		Trace	Variable	Sapling
						White Spruce	Trace	Variable	Sapling	