



# Compartment Review Presentation

## Pigeon River Country Forest Management Unit

Compartment 53012

Entry Year 2022

Acreage: 1,621

County Cheboygan

Management Area: Pigeon River Country

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**Revision Date:** 2020-07-21

**Stand Examiner:** Richard McDonald

**Legal Description:**

T33N - R01W sections 1, 12, 13

**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:**

Terrain is flat to gently rolling with the uplands comprised of primarily well-drained Cheboygan-Blue Lakes Assoc. Tawas-Lupton make up the majority of the lowland areas.

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

Entirely state-owned land.

**Unique Natural Features:**

None identified

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

None identified

**Special Management Designations or Considerations:**

Borders Dog Lake Special Management Area

**Watershed and Fisheries Considerations:**

McMasters Creek flows through the middle of the compartment and into the Black River. There is periodic beaver activity along this waterway.

**Wildlife Habitat Considerations:**

Please refer to Wildlife Biologist's comments.

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

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 10 and 400 feet, thickening to the south. Beneath the glacial drift is the Devonian Antrim Shale, quarried for clay/shale elsewhere in the state. The nearest gravel pit is located six miles to the north and potential is considered low in this area. No oil and gas leases remain in effect after 2001. This area appears to be out of the Guelph (Niagaran) reef trend, but may have limited Antrim Shale potential.

Consistent with the objectives of the Concept of Management, there are no plans to engage in mining activities (sand, gravel, stone, etc.) or oil and gas development in this Compartment. Nondevelopment (no surface infrastructure including pipelines, new roads, utility lines, well pads, etc.) oil and gas leasing may be considered.

**Vehicle Access:**

There is good access to most, if not all, of the compartment. Many of the forest roads, however, have been closed to wheeled motorized vehicles with virtually all those closures still intact.

**Survey Needs:**

None required.

**Recreational Facilities and Opportunities:**

No developed recreational facilities exist in this compartment and none are needed. The High Country Pathway runs through the north end of the compartment.

**Fire Protection:**

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

potential. Most road systems are closed with berms.

**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**

Report 1 – Total Acres by Cover Type and Age Class

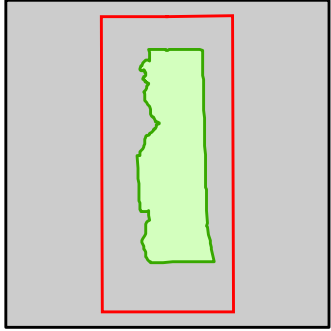


Age Class

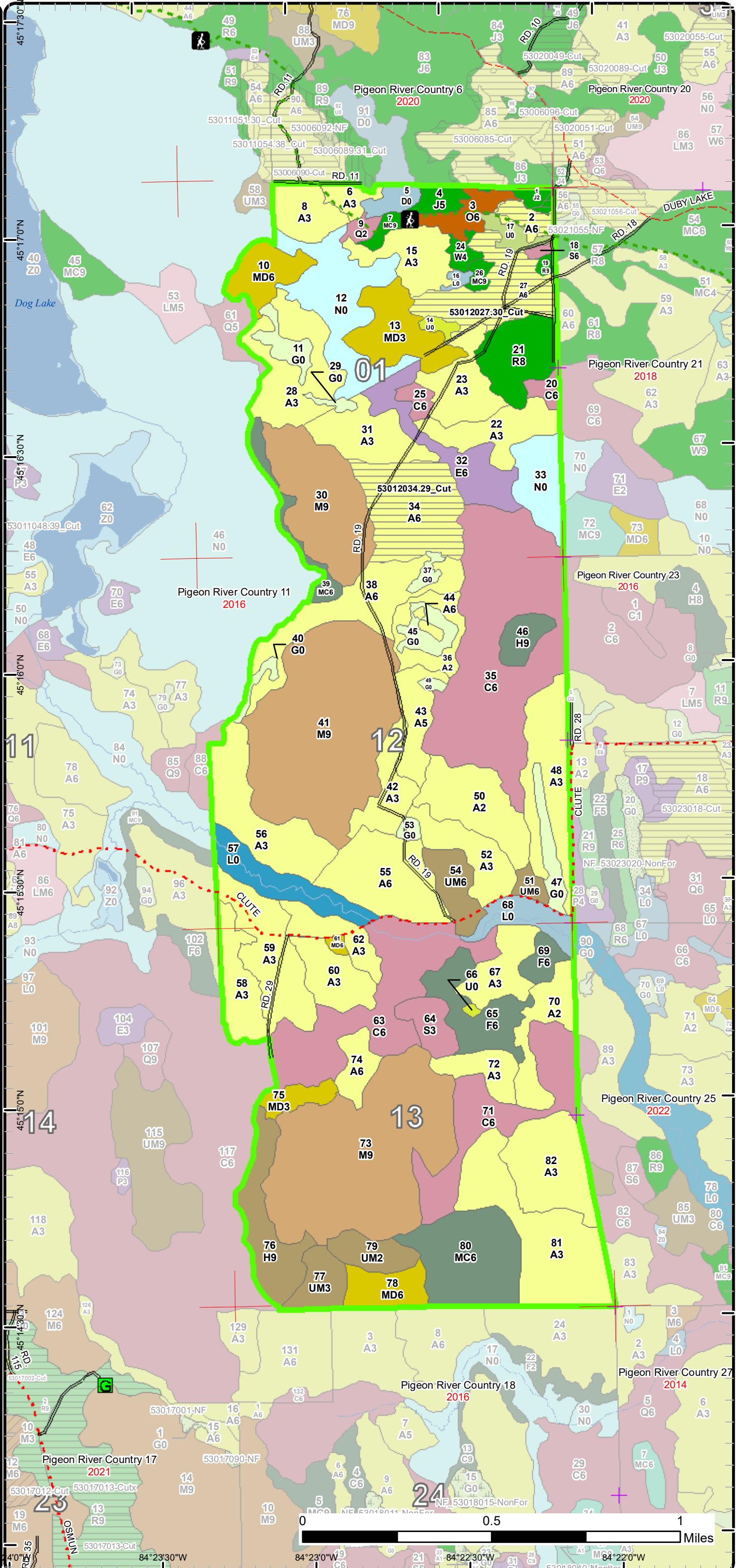
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	82	15	172	313	52	38	0	0	0	0	0	0	0	0	0	0	0	672
Cedar	0	0	0	0	0	0	0	0	0	0	0	63	46	0	109	0	0	0	218
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	27	36
Herbaceous Openland	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Jack Pine	0	0	4	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	10
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Conifers	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Deciduous	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	24
Lowland Shrub	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Lowland Spruce/Fir	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	12
Marsh	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58
Mixed Upland Deciduous	0	0	0	33	0	0	0	16	0	16	0	0	0	0	0	0	0	0	65
Natural Mixed Pines	0	0	0	0	0	0	0	0	4	0	0	0	0	3	0	0	0	0	7
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	273	273
Oak	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	10
Red Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0	0	0	26
Treed Bog	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Upland Conifers	0	0	0	0	0	0	0	0	0	10	42	0	0	0	0	0	0	0	52
Upland Mixed Forest	0	0	0	12	12	0	0	4	14	0	0	0	0	0	0	0	0	0	42
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	0	0	23	7	0	0	0	0	0	0	0	0	0	0	29
White Pine	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
<b>Total</b>	<b>142</b>	<b>82</b>	<b>19</b>	<b>221</b>	<b>328</b>	<b>52</b>	<b>73</b>	<b>27</b>	<b>48</b>	<b>36</b>	<b>42</b>	<b>63</b>	<b>46</b>	<b>0</b>	<b>147</b>	<b>0</b>	<b>0</b>	<b>300</b>	<b>1625</b>

# Cover Type & Treatments Map

Compartment: 12  
 T33N, R01W, Sec. 01,12,13  
 County: Cheboygan  
 Unit: Pigeon River Country  
 Mgmt Area: Pigeon River Country  
 YOE: 2022  
 Acres: 1621 GIS Calculated  
 Examiner: Richard McDonald  
 Map Revised: 3/1/2021  
 Map Phase: Post-Review

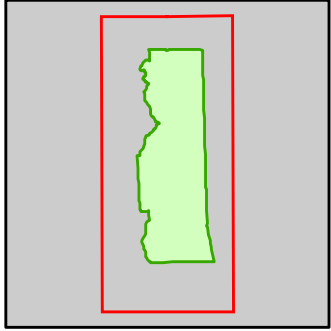


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Hiking Trails
- Bike Trails
- Ski Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- G Gate
- Compartment Boundary
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland

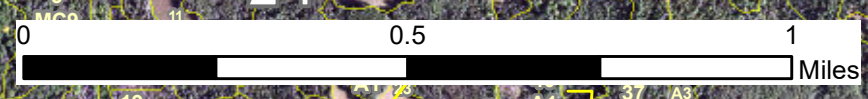
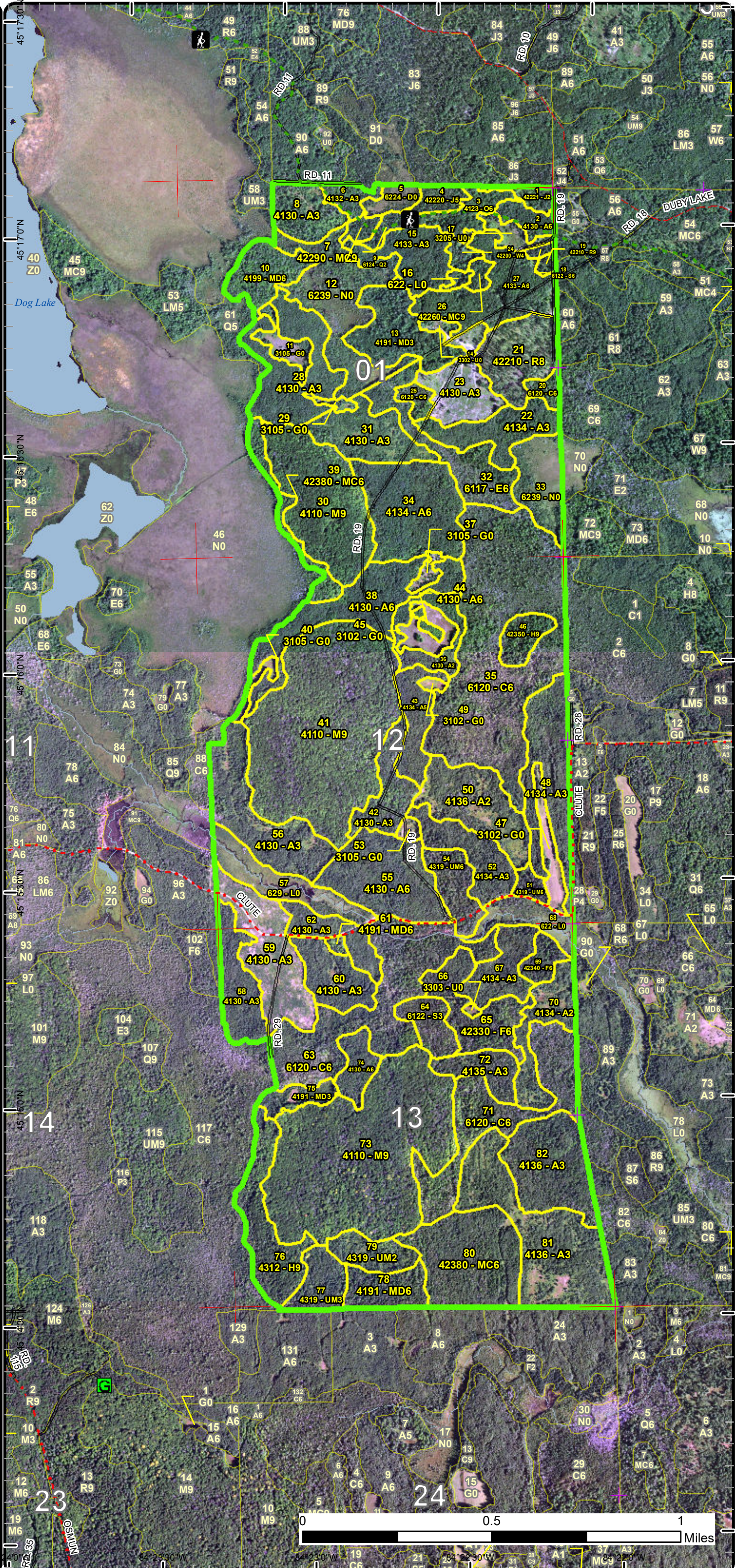


# Stand Boundary Map

Compartment: 12  
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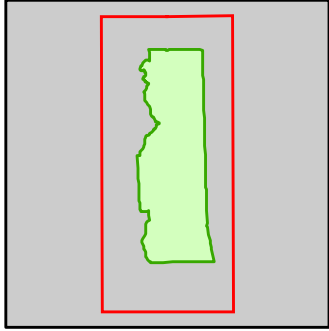


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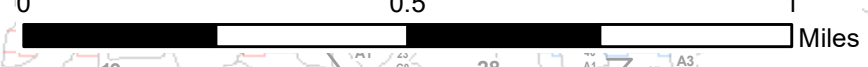
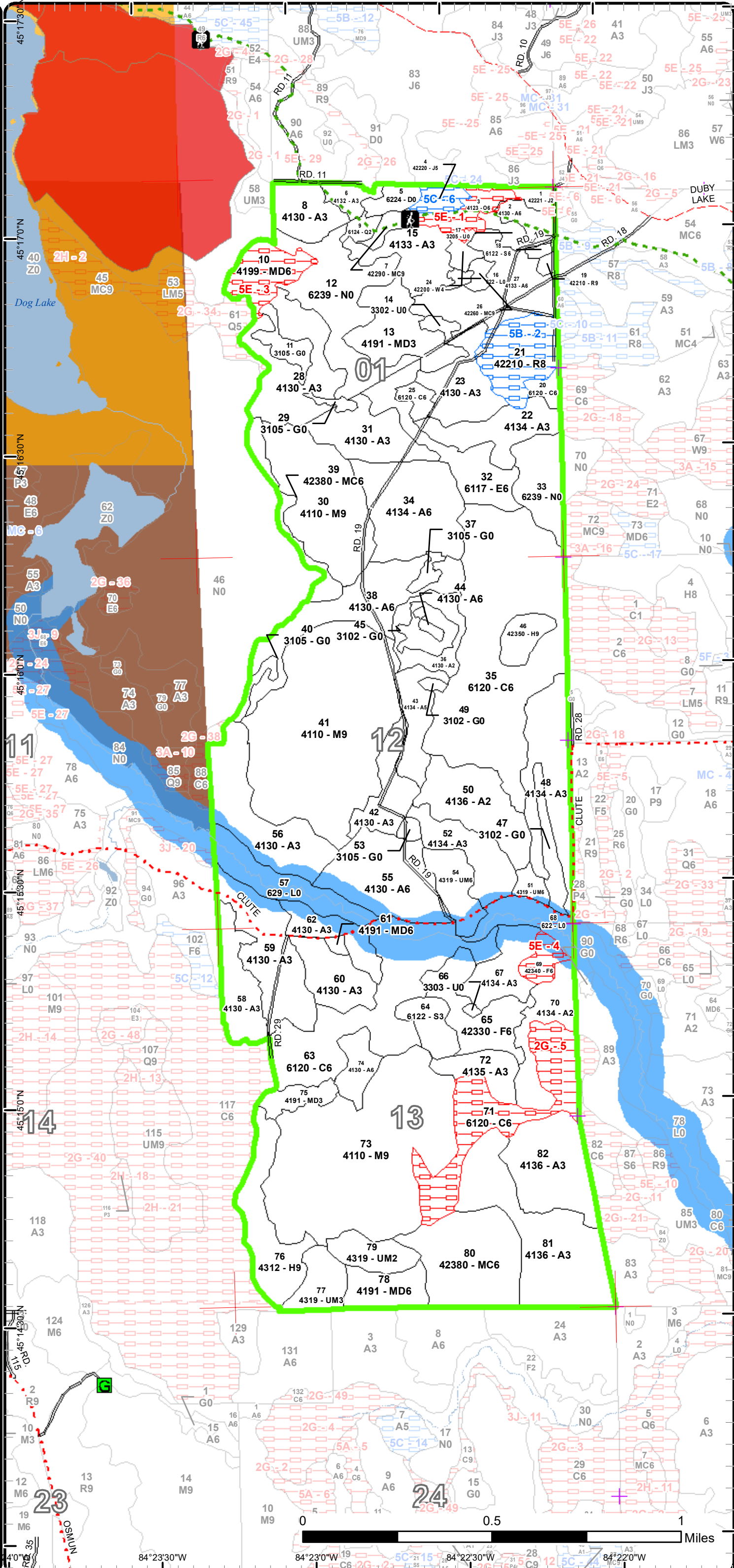


# Special Conservation Areas

Compartment: 12  
 T33N, R01W, Sec. 01,12,13  
 County: Cheboygan  
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 Mgmt Area: Pigeon River Country  
 YOE: 2022  
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- Miris Corners
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- Designated Hiking Trails
- Designated Bicycle Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- G Gate
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Non-Dedicated Natural Areas and National Natural Landmarks
- High Priority Trout Stream Buffer
- Wildlife Management Areas



40° 84°23'0"W 84°22'30"W 84°22'0"W



## Report 2 – Treatment Summary

### Acres of Harvest

Commercial Harvest - 79  
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		79	0	0	0	0	0	0	0	0	79
	<b>Total</b>	<b>79</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>79</b>

### Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		79	0	0	0	0	0	0	0	0	79
Next Step		0	0	0	0	0	79	0	0	0	79
	<b>Total</b>	<b>79</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>79</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>157</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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**Approved Treatments:**

<b>2</b>	<b>53012002.31_</b> <b>Cut</b>	6.3	4130 - Aspen	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear cut with retention being all Oak and some mature Red Pine. Use High Country Pathway as south boundary line and leave a slight buffer (10') to not disrupt the trail.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen along with a mix of other species meeting a minimum of a moderate stocking level will be acceptable for regeneration purposes.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>27</b>	<b>53012027.30_</b> <b>Cut</b>	32.1	4133 - Aspen, Mixed Pine	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear cut with 2-3 retention islands. Also, leave any clumps of Oak and cut individual Oak throughout the stand. Also, mark some Red and White Pine seed trees throughout the stand. Incorporate retention islands around groups of mature pine to be left.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen with a mix of other species meeting a minimum of a moderate stocking level will be acceptable for regeneration purposes.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>34</b>	<b>53012034.29_</b> <b>Cut</b>	40.2	4134 - Aspen, Spruce/Fir	Poletimber Well	47	51-80	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Clearcut with 2-3 retention islands preferably around the perimeter of the sale. Add grouse drumming log spec. Mark 1-2 mature trees per acre to fall and leave for ruffed grouse drumming logs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen with a mix of other species meeting a moderate stocking level will be acceptable for regeneration success.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

**Total Treatment** 78.6  
**Acreage Proposed:**



## Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 12

Richard McDonald : Examiner

Year of Entry: 2022

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5B	5C	2G	5E
670	670	0	0	Aspen				0
218	176	0	41	Cedar			41	
36	36	0	0	Hemlock				
34	34	0	0	Herbaceous Openland				
10	4	6	0	Jack Pine		6		
3	3	0	0	Low-Density Trees				
3	3	0	0	Lowland Conifers				
24	24	0	0	Lowland Deciduous				
35	35	0	0	Lowland Shrub				
12	12	0	0	Lowland Spruce/Fir				
58	58	0	0	Marsh				
64	48	0	16	Mixed Upland Deciduous				16
6	6	0	0	Natural Mixed Pines				
273	273	0	0	Northern Hardwood				
10	0	0	10	Oak				10
25	2	24	0	Red Pine	24			
6	6	0	0	Treed Bog				
52	52	0	0	Upland Conifers				
41	41	0	0	Upland Mixed Forest				
5	5	0	0	Upland Shrub				
29	23	0	6	Upland Spruce/Fir				6
4	4	0	0	White Pine				
1,621	1,517	29	74	Total Forested Acres	24	6	41	33
	94%	2%	5%	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	5E: Long-Term Retention	11	3D: Recreational / Scenic values	3L: Other wildlife concerns	Unspecified	Unspecified
<p><b>Comments:</b> Stocking level varies plus with the High Country Pathway running through it allows for trail protection. Leave Oak intact for wildlife purposes.</p>							

**Report 4 – Site Conditions**

Pigeon River Country Mgt. Unit

Compartment: 12

Richard McDonald: Examiner

Year of Entry: 2022

2	Available	5B: Maintain for regeneration purposes	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This stand had a shelterwood cut done and need more time for regeneration to take hold.							
3	Unavailable	5E: Long-Term Retention	16	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Isolated stand with good potential for Red-shouldered Hawk nesting sites.							
4	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	42	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	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	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	4.2	17	Immature	N/A	West half of the stand was cut in 2004. East half was more of a semi-open stand but they now share similar qualities.																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Jack Pine</td><td>60</td><td>Sapling</td><td>1</td><td>17</td></tr> <tr><td>Black Cherry</td><td>15</td><td>Sapling</td><td>2</td><td>17</td></tr> <tr><td>Quaking Aspen</td><td>5</td><td>Sapling</td><td>2</td><td>17</td></tr> <tr><td>Red Maple</td><td>10</td><td>Sapling</td><td>1</td><td>17</td></tr> <tr><td>White Pine</td><td>7</td><td>Sapling</td><td>3</td><td></td></tr> <tr><td>Red Pine</td><td>3</td><td>Sapling</td><td>1</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	60	Sapling	1	17	Black Cherry	15	Sapling	2	17	Quaking Aspen	5	Sapling	2	17	Red Maple	10	Sapling	1	17	White Pine	7	Sapling	3		Red Pine	3	Sapling	1		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>				Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine	Low	5 - 10 feet	Sapling
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2	4130 - Aspen	Poletimber Well	6.3	52	81-110	N/A	High Country Pathway passes through south edge of the stand. Keep treatment north of the trail																																									
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4	42220 - Natural Jack Pine	Poletimber Medium	5.6	76	1-50	N/A	Stand basal area is seed tree residual left after the stand was cut in 1984.																																									
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6	4132 - Aspen, Jack Pine	Sapling Well	5.7	37	1-50	N/A	Stand Year Origin was 1984. Stand has suffered some browse damage.																																									
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7	42290 - Natural Mixed Pine	Sawtimber Well	3.5	76	51-80	N/A	Pocket of mature mixed pine along hiking trail on the edge of a swamp. Leave for a retention stand.																																																			
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9	6124 - Lowland Spruce-Fir	Sapling Medium	3.2	36	1-50	N/A	Wet drainage with High Country Pathway going through it with boardwalk.																																																			
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10	4199 - Other Mixed Upland Deciduous	Poletimber Well	15.8	86	51-80	N/A	Relatively small remote stand with good potential for harboring a red-shouldered hawk nest. Recommend not harvesting for that reason. Long term retention.																																																			
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11	3105 - Mixed Upland Herbaceous	Nonstocked	7.1		Unspecified	Managed Opening	Existing wildlife created opening hasn't been worked in several years.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**12** 6239 - Mixed Emergent Wetland Nonstocked 39.9 0 Unspecified No Too wet and low volume for commercial.

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High	5 - 10 feet	Tall Shrub
Northern White Cedar	Low	>20 feet	Pole
Balsam Fir	Low	>20 feet	Pole
Red Maple	Low	10 - 20 feet	Sapling
Tamarack	Low	10 - 20 feet	Sapling

**13** 4191 - Mixed Upland Deciduous with Conifer Sapling Well 25.2 26 Immature N/A Sale cut in 1995 and left pine and oak residual.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	30	Sapling	3	26
Red Maple	30	Sapling	3	26
White Pine	15	Sapling	3	26
Balsam Fir	5	Sapling	3	
Red Pine	10	Log/Pole/Sap	16	
Red Oak	10	Log/Pole	15	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	10 - 20 feet	Sapling
Red Pine	Low	5 - 10 feet	Sapling
White Pine	Medium	5 - 10 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling

**14** 3302 - Low Density Conifer Trees Nonstocked 2.4 Unspecified No Natural opening gradually filling in with pine.

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	10 - 20 feet	Pole
Red Pine	Low	10 - 20 feet	Pole
Mixes Sedges/Grasses	High	Unspecified	Non-Wood
Sweet Fern	Low	< 5 feet	Tall Shrub

**15** 4133 - Aspen, Mixed Pine Sapling Well 19.0 33 Immature N/A OI Stand Year Origin was 1988

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	40	Sapling	3	33
Red Maple	20	Sapling	3	33
Jack Pine	10	Sapling	3	33
Balsam Fir	15	Sapling	3	
Red Pine	5	Sapling	3	
White Pine	10	Sapling	3	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
White Pine	Low	5 - 10 feet	Sapling

**16** 622 - Lowland Shrub Nonstocked 1.7 0 Unspecified No Vernal pond with varying water levels throughout the year.

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	Low	10 - 20 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
17	3205 - Mixed Upland Shrub	Nonstocked	5.3		Unspecified	No	Dry natural opening with poor sandy soil.																																										
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18	6122 - Black Spruce	Poletimber Well	1.4	52	51-80	N/A	Low depression that holds some water																																										
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21	42210 - Natural Red Pine	Sawtimber Medium	23.7	134	51-80	N/A	Stand had a shelterwood cut in 2014-15. BA is variable throughout.																																										
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22	4134 - Aspen, Spruce/Fir	Sapling Well	20.1	38	1-50	N/A	OI Stand Year Origin was 1983																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
23	4130 - Aspen	Sapling Well	20.2	6	Immature	N/A	Stand cut in 2014-15. Some significant browse damage has occurred throughout this stand but it should recover.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Quaking Aspen		85	Sapling	1	6		
Red Maple		15	Sapling	1	6		
24	42200 - Natural White Pine	Poletimber Poor	3.7	26	1-50	N/A	Opening filling naturally with pine.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Pine		60	Pole/Sapling	7	26		
Jack Pine		30	Pole/Sapling	6	26		
Red Pine		10	Sapling	4			
25	6120 - Lowland Cedar	Poletimber Well	4.1	115	111-140	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Northern White Cedar		60	Pole	9	115		
Red Maple		25	Pole/Sapling	7			
Paper Birch		10	Log/Pole	10			
Quaking Aspen		5	Log/Pole	14			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Balsam Fir		Low	5 - 10 feet	Sapling			
Tag Alder		Low	< 5 feet	Tall Shrub			
26	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	2.7	135	81-110	N/A	Maintain as a long-term retention stand. Old Red Pine and Oak with fire scars.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Bigtooth Aspen		10	Log/Pole	10	135		
Red Maple		5	Pole	8	52		
Red Oak		20	Log/Pole	14	135		
Red Pine		55	Log/Pole	16	135		
White Pine		10	Log/Pole	15			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Red Maple		Low	10 - 20 feet	Sapling			
White Pine		Low	10 - 20 feet	Sapling			
27	4133 - Aspen, Mixed Pine	Poletimber Well	32.1	52	81-110	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Bigtooth Aspen		60	Pole	9	52		
Red Maple		10	Pole	8	52		
Red Oak		10	Log	14	52		
White Pine		5	Log/Pole	12			
Red Pine		15	Log/Pole	16			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Red Maple		Low	10 - 20 feet	Sapling			
White Pine		Low	10 - 20 feet	Sapling			
Balsam Fir		Low	10 - 20 feet	Sapling			
28	4130 - Aspen	Sapling Well	32.7	34	Immature	N/A	OI Stand Year Origin was 1987
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Quaking Aspen		75	Sapling	4	34		
Red Maple		10	Sapling	3	34		
Balsam Fir		15	Sapling	3	34		
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
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Red Maple		Low	10 - 20 feet	Sapling			



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29	3105 - Mixed Upland Herbaceous	Nonstocked	1.8		Unspecified	No																																																									
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30	4110 - Sugar Maple Association	Sawtimber Well	47.8	111	81-110	N/A	This stand was selectively cut with stand 41 in 2018-19 as part of the Old Grade Hardwood sale (53-007-12-01). Vernal Pond sits in the middle of the stand.																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**39** 42380 - Non Pine Upland Conifer, Mixed Deciduous Poletimber Well 10.1 86 111-140 N/A Leave for diversity and wildlife considerations.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	45	Log/Pole	10	86	Beech	Low	5 - 10 feet	Sapling
Northern White Cedar	10	Pole	9	86	Red Maple	Medium	10 - 20 feet	Sapling
Beech	5	Pole	8		Ironwood	Medium	10 - 20 feet	Sapling
Red Maple	10	Pole	9		Balsam Fir	Low	5 - 10 feet	Sapling
Basswood	15	Log/Pole	12	86				
Balsam Fir	10	Pole/Sapling	8					
Sugar Maple	5	Log/Pole	10					

**40** 3105 - Mixed Upland Herbaceous Nonstocked 2.9 0 Unspecified Managed Opening Old wildlife opening that hasn't been worked in several years. Starting to grow in.

Sub-Canopy Species	Density	Avg. Height	Size
Mixed Grasses	High	Unspecified	Non-Wood
Bracken Fern	Medium	Unspecified	Non-Wood

**41** 4110 - Sugar Maple Association Sawtimber Well 110.8 111 81-110 N/A This stand was selectively cut with stand 30 as part of the Old Grade Hardwood sale 53-007-12-01.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	45	Log/Pole	10	111
Basswood	35	Log/Pole	12	111
Beech	10	Log/Pole	12	111
Hemlock	5	Log/Pole	12	
Paper Birch	5	Log/Pole	10	

**42** 4130 - Aspen Sapling Well 15.9 3 Immature N/A Stand was clear cut in 2018 as part of the Old Grade Hardwood sale.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	100	Sapling	1	3

**43** 4134 - Aspen, Spruce/Fir Poletimber Medium 14.8 36 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	70	Pole/Sapling	5	36	Balsam Fir	Medium	10 - 20 feet	Sapling
Red Maple	10	Pole/Sapling	5	36				
Balsam Fir	20	Sapling/Pole	4	36				

**44** 4130 - Aspen Poletimber Well 1.7 49 51-80 N/A Small island of Aspen the same age class as stand 36 that sits in the middle of a wildlife opening. Because of its isolation it should be left to apply towards our retention goals.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	80	Pole/Sapling	8	49	Balsam Fir	Medium	10 - 20 feet	Sapling
Red Maple	10	Pole/Sapling	8	49	Red Maple	Low	10 - 20 feet	Sapling
Balsam Fir	5	Pole/Sapling	8					
White Pine	5	Pole/Sapling	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
45	3102 - Grass	Nonstocked	7.8		Unspecified	Managed Opening	Wildlife created this opening and manages it periodically.																																										
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46	42350 - Upland Hemlock	Sawtimber Well	8.6	131	201+	N/A	Pine/Hemlock island in the middle of a cedar swamp.																																										
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53	3105 - Mixed Upland Herbaceous	Nonstocked	2.0		Unspecified	No	Stoney Homestead - apple trees																																														
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54	4319 - Mixed Upland Forest	Poletimber Well	13.5	77	81-110	N/A	Active travel corridor for wildlife. Leave this stand to break up age class of surrounding stand. Good retention stand.																																														
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57	629 - Mixed non-forested wetland	Nonstocked	20.7		Unspecified	No	Creek bottom along McMasters Creek heavily influenced by beaver activity																																														
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61	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	1.4	65	81-110	N/A	Small stand left behind after stand 60 and 62 were cut. Recommend leaving this stand to help achieve retention goals.																																										
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63	6120 - Lowland Cedar	Poletimber Well	59.6	106	51-80	N/A	McMasters Creek flows through this stand. The majority of this stand is rather wet. Portions along creek are dead due to high water from beaver activity.																																										
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64	6122 - Black Spruce	Sapling Well	10.5	56	1-50	N/A	Spruce/cedar bog																																																		
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65	42330 - Upland Fir	Poletimber Well	22.9	51	51-80	N/A																																																			
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66	3303 - Mixed Low Density Trees	Nonstocked	0.7		Unspecified	No	High knoll with scattered fir and clumps of hardwood. Maintain as opening or brushy.																																																		
67	4134 - Aspen, Spruce/Fir	Sapling Well	16.5	34	Immature	N/A																																																			
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68	622 - Lowland Shrub	Nonstocked	13.1		Unspecified	No	Creek bottom along McMasters Creek with periodic beaver activity that controls vegetation type and distribution.																																																		
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69	42340 - Upland Spruce/Fir	Poletimber Well	6.5	61	51-80	N/A																																																			
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<b>70</b>	4134 - Aspen, Spruce/Fir	Sapling Medium	18.7	27	Immature	N/A	Browsing had an impact on this stand right after it started regenerating; the north end particularly. Species composition varies throughout the stand.																																							
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<b>71</b>	6120 - Lowland Cedar	Poletimber Well	41.5	118	81-110	N/A																																								
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<b>72</b>	4135 - Aspen, Cedar	Sapling Well	11.7	33	Immature	N/A	OPIC - FMD: OI Stand Year Origin was 1988																																							
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<b>73</b>	4110 - Sugar Maple Association	Sawtimber Well	114.1	111	81-110	N/A	Stand was selectively cut in 2018-19. Hoot Owl Hardwoods (53-015-12-01)																																							
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<b>74</b>	4130 - Aspen	Poletimber Well	9.6	48	51-80	N/A																																								
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75	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	7.5	27	Immature	N/A	Stand originally suffered quite a bit of browse damage, but has recovered nicely with a mix of species instead of the aspen that dominated originally. Opening in the center of the stand has served as a landing area for a couple of different sales.																																																			
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76	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	27.4	111	81-110	N/A	Transition between Hardwood and swamp.																																																			
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77	4319 - Mixed Upland Forest	Sapling Well	12.4	34	Immature	N/A																																																				
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78	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	14.2	66	51-80	N/A	Poor quality timber and low volume. Good Fir reproduction. May serve better as a retention stand.																																																			
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79	4319 - Mixed Upland Forest	Sapling Medium	11.6	27	Immature	N/A	Moderate regeneration. Wet spots with marsh grass.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**80**      42380 - Non Pine Upland Conifer, Mixed Deciduous      Poletimber Well      41.9      99      51-80      N/A      Larger cedar and hemlock was left as residual after stand was cut the last time.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	25	Sapling	2	27
Red Maple	10	Sapling	2	27
Paper Birch	5	Sapling	2	27
Balsam Fir	10	Sapling	2	27
Northern White Cedar	45	Log/Pole	10	99
Hemlock	5	Pole	9	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
Red Maple	Low	5 - 10 feet	Sapling

**81**      4136 - Aspen, Mixed Conifer      Sapling Well      53.2      27      Immature      N/A      Hemlock residual (and some Cedar) after cut.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	60	Sapling	3	27
Red Maple	15	Sapling	3	27
Balsam Fir	10	Sapling	2	
Hemlock	10	Log/Pole	10	
Northern White Cedar	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
Red Maple	Low	5 - 10 feet	Sapling

**82**      4136 - Aspen, Mixed Conifer      Sapling Well      32.8      34      Immature      N/A      Cedar residual (and some Hemlock) after cut.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	60	Sapling	3	34
Red Maple	15	Sapling	3	34
Balsam Fir	10	Sapling	2	
Hemlock	10	Log/Pole	10	
Northern White Cedar	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
Red Maple	Low	5 - 10 feet	Sapling