



# Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54056

Entry Year 2024

Acreage: 960

County Montmorency

Management Area: Thunder Bay Outwash

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**Stand Examiner:** Richard Barber

**Legal Description:**

T31N, R4E, Sec. 17 & 18.

**Identified Planning Goals:**

Antrim Gas, timber, recreational snowmobile trails, Orv trails, and wildlife habitat.

**Soil and topography:**

Mostly flat outwash plains with grayling and Rubicon sands. There are some steep hills sloping down to Brush Creek and Little Brush Creek.

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

Private property to the north along Brush Creek. Private property to the east. All State land to the south and west. There are many gas wells and pipelines in and around the compartment.

**Unique Natural Features:**

None listed.

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

Site of Morris dam and other sites.

**Special Management Designations or Considerations:**

None.

**Watershed and Fisheries Considerations:**

Little Brush Creek is a cold water stream. Brush Creek is a high priority trout stream.

**Wildlife Habitat Considerations:**

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

The nearest active sand/gravel pit is roughly two miles to the south. There appears to be some good sand & gravel potential in the compartment, but any surface mining would need to avoid oil & gas infrastructure. This area has been developed for and is producing gas from the Antrim Shale. Nearly all State-owned oil & gas rights are currently leased and held by production. The Antrim is thinning to the northwest, and production potential in the undeveloped eastern portion of the compartment may be limited. Additionally, due to the persistent low price of natural gas, there is unlikely to be any additional Antrim development in the area in the near future, and there is no known potential for hydrocarbon production from other proven formations. There is no known metallic mineral potential in this part of the state.

**Vehicle Access:**

Highly adequate.

**Survey Needs:**

Surveys may be needed for timber sale or trespass.

**Recreational Facilities and Opportunities:**

Snowmobile trail, ORV trail, trail head parking lot, hunting, and fishing.

**Fire Protection:**

Hillman VFD and MDNR.

**Additional Compartment Information:**

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

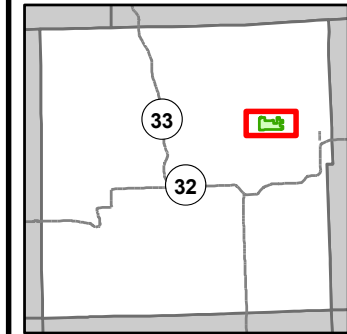
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

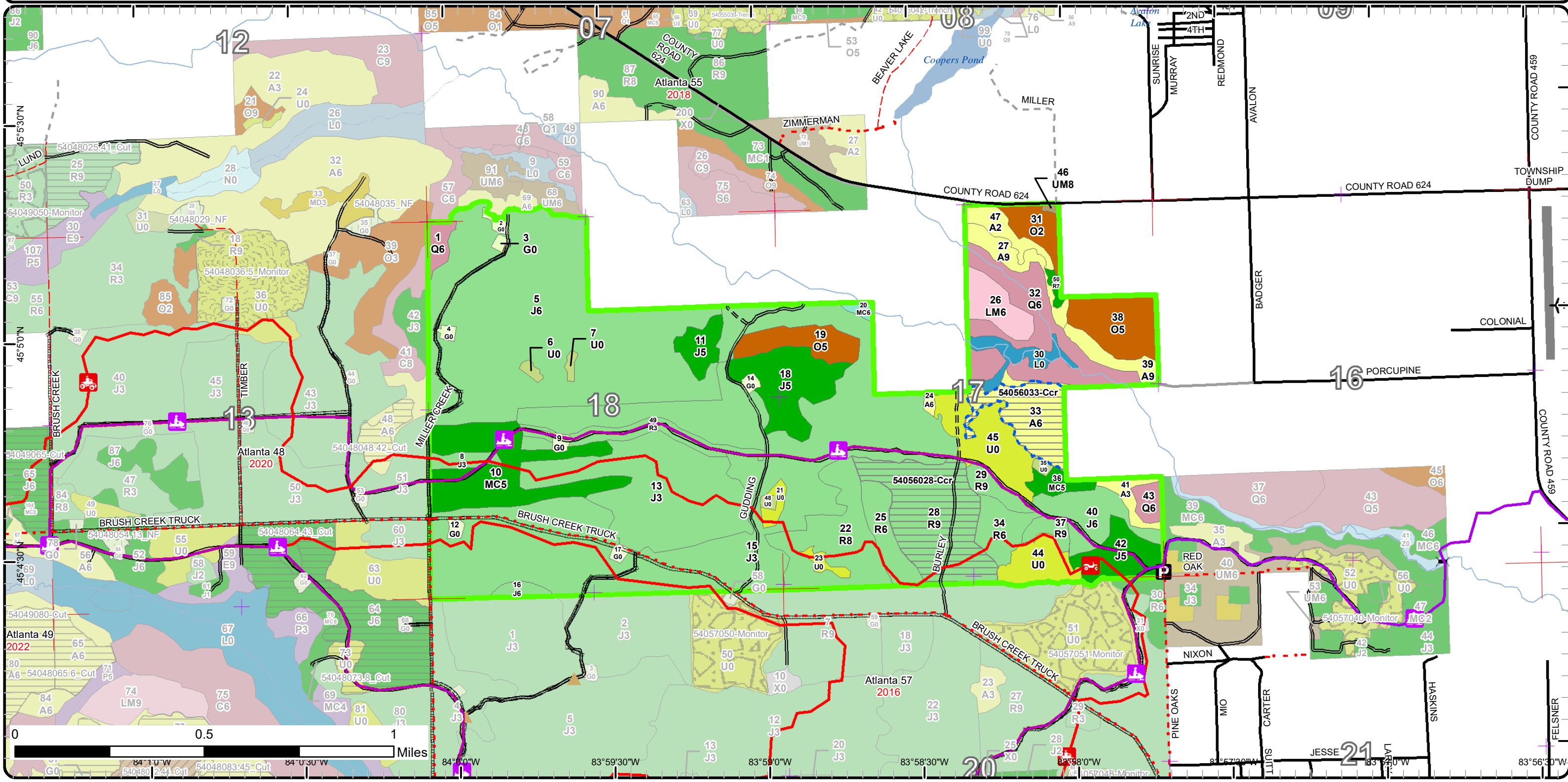
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 56  
 T31N, R04E, Sec. 7, 17, 18, 20  
 County: Montgomery  
 Unit: Atlanta  
 Mgmt Area: Thunder Bay  
 Outwash  
 YOE: 2024  
 Acres: 960.2 GIS Calculated  
 Examiner: Richard Barber  
 Map Revised: 11/16/2022  
 Map Phase: Post-Review

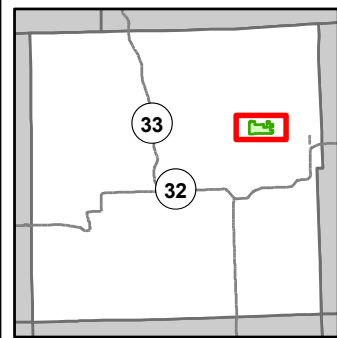


- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
- Airport
- Berms
- Bridges
- Parking Lot
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Airports
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- 412 - Oak Types
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 629 - Mixed Non-forested Wetland

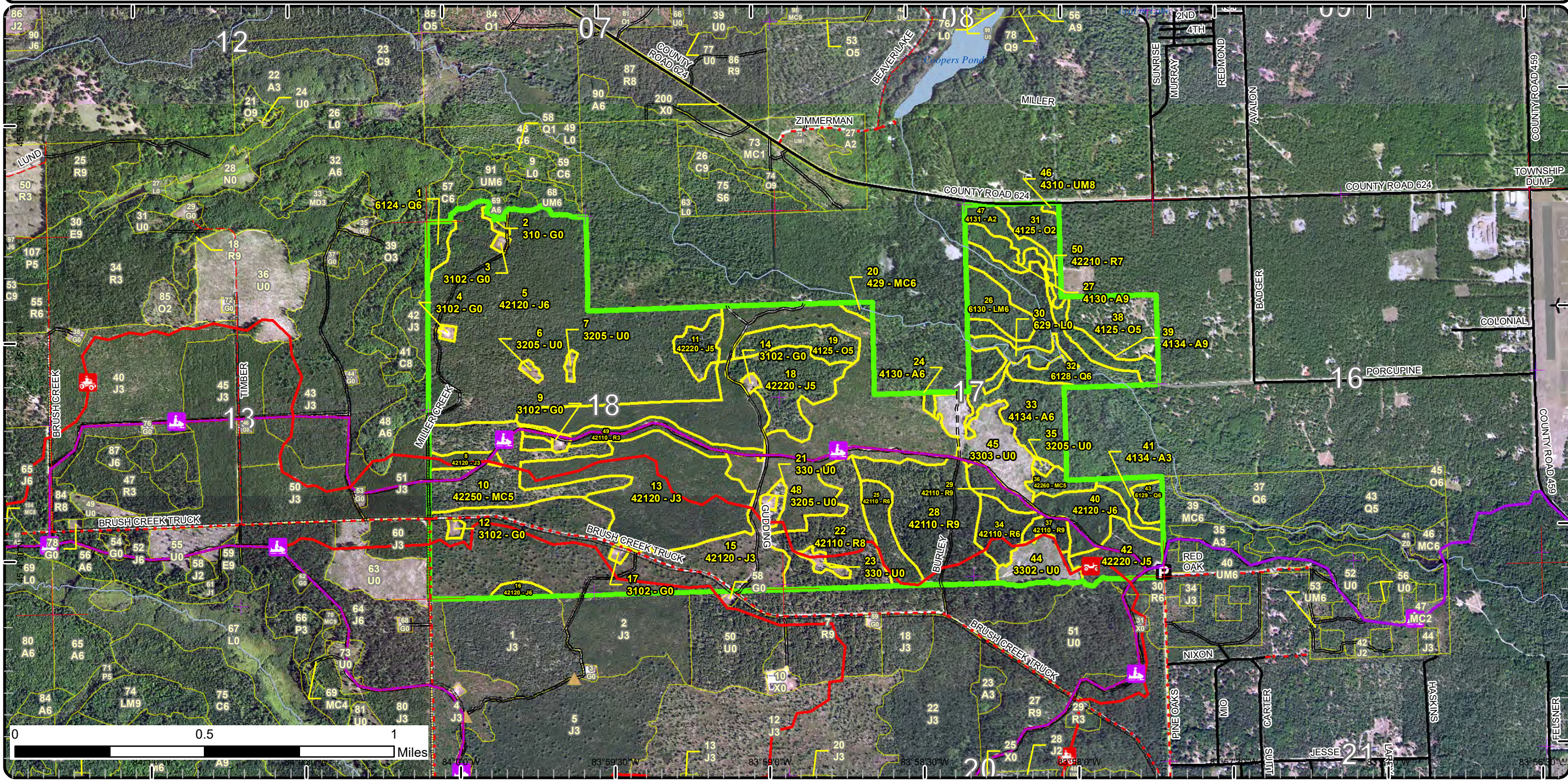


# Stand Boundary Map

Compartment: 56  
 T31N, R04E, Sec. 7, 17, 18, 20  
 County: Montmorency  
 Unit: Atlanta  
 Mgmt Area: Thunder Bay  
 Outwash  
 YOE: 2024  
 Acres: 960.2 GIS Calculated  
 Examiner: Richard Barber  
 Map Revised: 11/16/2022  
 Map Phase: Post-Review



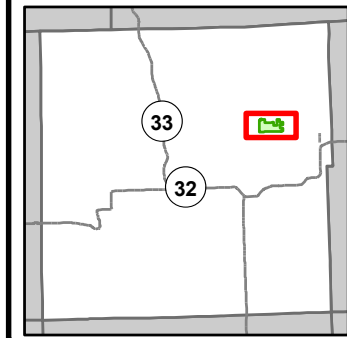
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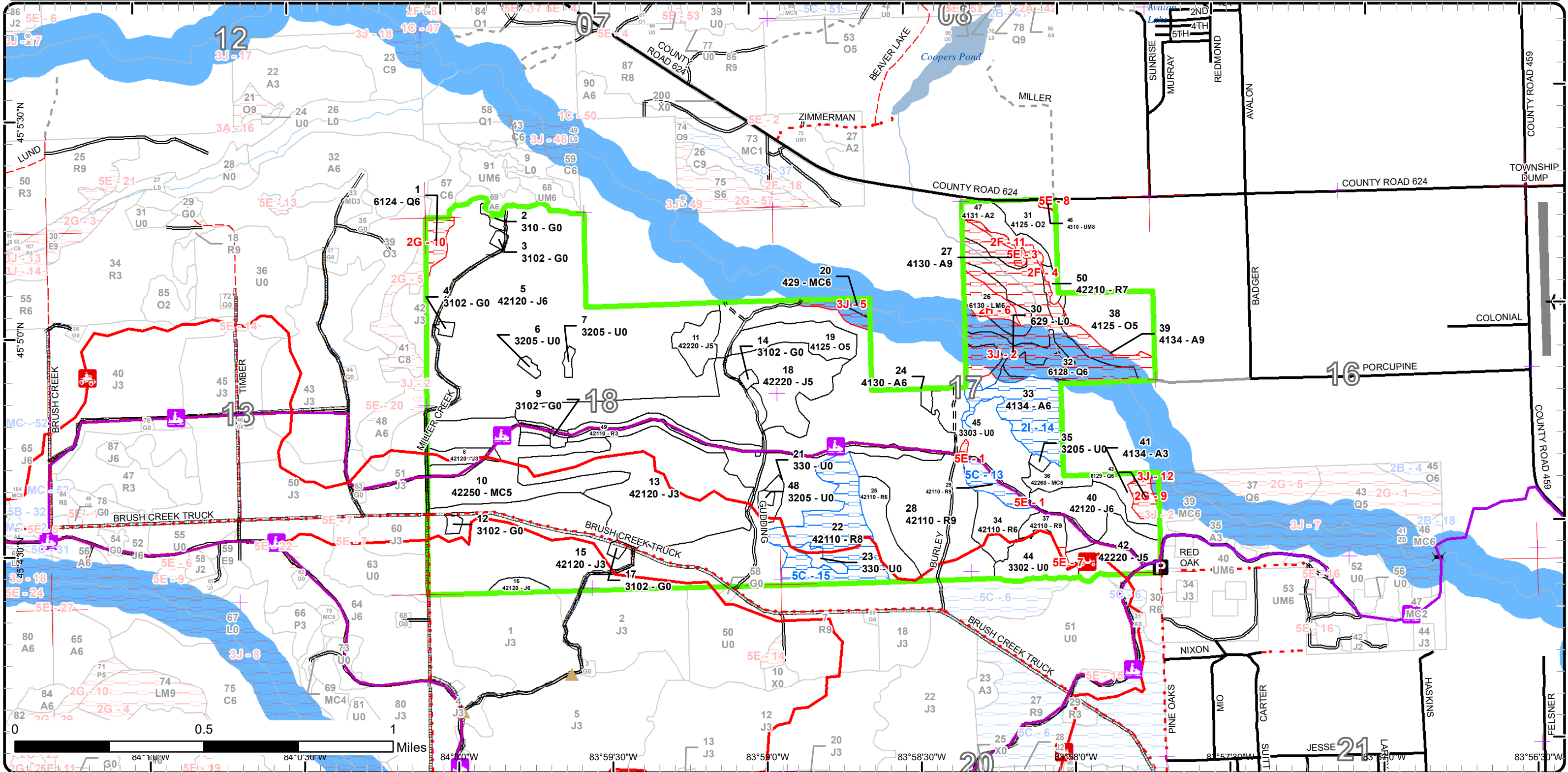
84° 0' 0" W    83° 59' 30" W    83° 59' 0" W    83° 58' 30" W    83° 58' 0" W    83° 57' 30" W

# Special Conservation Areas

Compartment: 56  
 T31N, R04E, Sec. 7, 17, 18, 20  
 County: Montmorency  
 Unit: Atlanta  
 Mgmt Area: Thunder Bay  
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- Bridges
- Parking Lot
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Airports
- Compartment Boundary
- Available w/ Constraints
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	7	0	0	5	1	32	0	0	0	7	0	0	0	0	0	0	0	52
Herbaceous Openland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Jack Pine	0	0	199	110	18	219	16	0	0	0	0	0	0	0	0	0	0	0	562
Low-Density Trees	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Lowland Conifers	0	0	0	0	0	0	0	0	5	0	37	5	0	0	0	0	0	0	47
Lowland Mixed Forest	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Shrub	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Natural Mixed Pines	0	0	0	0	42	0	0	0	5	0	0	0	0	0	0	0	0	0	47
Oak	0	9	0	0	14	21	0	0	0	0	0	0	0	0	0	0	0	0	44
Red Pine	0	0	0	12	23	0	0	0	88	6	0	2	0	0	0	0	0	0	130
Upland Conifers	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Upland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
<b>Total</b>	<b>62</b>	<b>16</b>	<b>199</b>	<b>122</b>	<b>102</b>	<b>253</b>	<b>48</b>	<b>0</b>	<b>98</b>	<b>6</b>	<b>46</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>959</b>



## Report 2 – Treatment Summary

Atlanta Mgt. Unit

Compartment 56

Year of Entry: 2024

Acres of Harvest

Total Compartment Acres: 960

Commercial Harvest - 48  
 Harvests with Site Condition - 22  
 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	22	0	0	0	0	0	0	0	0	22
Red Pine	48	0	0	0	0	0	0	0	0	48
<b>Total</b>	<b>70</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>70</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	70	0	0	0	0	0	0	0	0	70
Next Step	0	48	48	0	0	96	119	0	0	311
<b>Total</b>	<b>70</b>	<b>48</b>	<b>48</b>	<b>0</b>	<b>0</b>	<b>96</b>	<b>119</b>	<b>0</b>	<b>0</b>	<b>382</b>



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Approved Treatments:**

<b>28</b>	<b>54056028-Ccr</b>	48.2	42110 - Planted Red Pine	Sawtimber Well	76	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Two-Aged	No
<p><u>Prescription</u> Clearcut using 2-inch DBH. Tops must be chipped within 3 months of the parent stem's severance from the stump unless other arrangements are made. 6-inch stump spec. Plant to red pine.</p> <p><u>Specs:</u> Use current, standard trail specs for safety and infrastructure protection. Do not trench through ORV trail. Do not haul on snowmobile trail/ORV route December 1st to April 1st. Cross ORV trail only on existing two-track.</p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial - Release;</p> <p><u>Treatments:</u> Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable</u> Planted red pine.</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 /2023</p>											

<b>33</b>	<b>54056033-Ccr</b>	22.2	4134 - Aspen, Spruce/Fir	Poetimber Well	50		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) may include cold water stream buffer.</p> <p><u>Specs:</u> Use grouse spec 5.2.4.7, 12" minimum diameter fully merchantable tree, one per two acres. Sale acreage may be significantly less than predicted due to wet conditions.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, oak, pine, maple, spruce, fir.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											

**Total Treatment Acreage Proposed: 70.4**



## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Richard Barber : Examiner

Compartment: 56  
Year of Entry: 2024

### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
53	13	22	18

### Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions							
					2I	5C	2F	2G	2H	3J	5E	
53	13	13	22	18	Aspen	22		2	1		15	0
9	9	9	0	0	Herbaceous Openland							
562	559	559	0	3	Jack Pine				0		3	
41	40	40	0	1	Low-Density Trees							1
46	0	0	0	46	Lowland Conifers				9		37	
12	0	0	0	12	Lowland Mixed Forest					7	6	
8	1	1	0	7	Lowland Shrub						7	
47	47	47	0	0	Natural Mixed Pines							
44	44	44	0	0	Oak						0	0
131	90	90	41	0	Red Pine		41	0			0	0
2	0	0	0	2	Upland Conifers						2	
1	0	0	0	1	Upland Mixed Forest							1
4	4	4	0	0	Upland Shrub							
960	807	807	63	90	Total Forested Acres	22	41	2	9	7	70	2
	84%	84%	7%	9%	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	1	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                      Delaying treatment on this portion of the stand south of the snowmobile trail for age class diversity and visual aesthetics. This portion of the stand should be managed when the other surrounding stands are treated south of the snowmobile trail and the north side has regenerated.</p>							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	64	2F: Too steep	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                      some steep slopes and 300 ft buffer of a cold stream</p>							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Richard Barber : Examiner

Compartment: 56  
Year of Entry: 2024

3	Unavailable	5E: Long-Term Retention	1	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is long term retention for Timber Sale Name: Snake Pit Mix; Timber Sale No.: 54-033-14-01							
4	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is long term retention for Timber Sale Name: Snake Pit Mix; Timber Sale No.: 54-033-14-01							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	3A: Conservation Values incompatible with harvest at this time	3J: Water quality / BMPs (stream, river, or lake)	5A: Not able to obtain desirable regeneration	Unspecified
<b>Comments:</b> This is a wet site, a portion of it falls within the 300 ft buffer of a cold stream. Cedar is only about 15% of the cover, if cut, it may be hard to get any cedar to regenerate.							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Richard Barber: Examiner

Compartment: 56  
Year of Entry: 2024

10	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>2F: Too steep</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	1	1C: Other dept or div proc/practices	5A: Not able to obtain desirable regeneration	2G: Too wet (sensitive soils, does not include access issues)	Unspecified
<b>Comments:</b> Priority Trout Stream 100 m Buffer. This is a wet site, a portion of it falls within the 300 ft buffer of a cold stream. Cedar is only about 15% of the cover, if cut, it may be hard to get any cedar to regenerate.							
13	<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>							
14	<b>Available</b>	<b>2I: Survey needed</b>	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	35	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	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
1	6124 - Lowland Spruce-Fir	Poletimber Well	4.7	70		N/A	1-24-2012. stand is small in size. leave for diversity.																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>10</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>15</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>30</td> <td>Pole/Sapling</td> <td>6</td> <td>70</td> </tr> <tr> <td>Black Spruce</td> <td>25</td> <td>Pole</td> <td>7</td> <td>70</td> </tr> <tr> <td>Tamarack</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>15</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Pole/Sapling	5		Paper Birch	15	Pole	7		Balsam Fir	30	Pole/Sapling	6	70	Black Spruce	25	Pole	7	70	Tamarack	5	Pole	7		Northern White Cedar	15	Log/Pole	10		<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>Red Maple</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	10 - 20 feet	Sapling	Tag Alder	Low	5 - 10 feet	Tall Shrub	Balsam Fir	Medium	5 - 10 feet	Sapling
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2	310 - Herbaceous Openland	Nonstocked	1.5	0		No																																																
3	3102 - Grass	Nonstocked	1.0				gas well																																															
4	3102 - Grass	Nonstocked	1.0				gas well																																															
5	42120 - Planted Jack Pine	Poletimber Well	181.4	43	1-50	N/A																																																
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6	3205 - Mixed Upland Shrub	Nonstocked	1.2			No																																																
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8	42120 - Planted Jack Pine	Sapling Well	4.6	28	Immature	N/A																																																
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9	3102 - Grass	Nonstocked	1.7				gas well																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
10	42250 - Pine, Oak	Poletimber Medium	41.7	39	1-50	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Black/Red (Hybrid) Oak		30	Pole	7		Jack Pine	
White Pine		2	Pole	6		Black/Red (Hybrid) Oak	
Jack Pine		68	Pole	8	39	Density	
						Avg. Height	
						Size	
						Sapling	
						Sapling	
11	42220 - Natural Jack Pine	Poletimber Medium	8.1	43	1-50	N/A	01/24/2012
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Pine		5	Pole/Log	8		Jack Pine	
Black/Red (Hybrid) Oak		5	Pole/Sap/Log	7		Black/Red (Hybrid) Oak	
Jack Pine		90	Pole	6	43	Density	
						Avg. Height	
						Size	
						Sapling	
						Sapling	
12	3102 - Grass	Nonstocked	1.2				gas well
13	42120 - Planted Jack Pine	Sapling Well	105.7	28	Immature	N/A	fire hazard/salvage cut in 1991 from outbreak of jack pine bud worm.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Jack Pine		93	Sapling	3	28		
Red Pine		2	Sapling/Pole	3			
Black/Red (Hybrid) Oak		5	Pole/Sapling	5			
14	3102 - Grass	Nonstocked	1.1				gas well
15	42120 - Planted Jack Pine	Sapling Well	198.7	16	Immature	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Pine		2	Log	10			
Jack Pine		90	Sapling	1	16		
Black/Red (Hybrid) Oak		8	Sapling/Pole	3			
16	42120 - Planted Jack Pine	Poletimber Well	3.3	43		N/A	01/24/2012
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Black/Red (Hybrid) Oak		2	Pole/Sapling	5			
Jack Pine		98	Pole	5	43		
17	3102 - Grass	Nonstocked	1.1				gas well



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
18	42220 - Natural Jack Pine	Poletimber Medium	26.3	49	1-50	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Black/Red (Hybrid) Oak		8	Pole/Sap/Log	7		Black/Red (Hybrid) Oak	
Red Pine		2	Log	12		Jack Pine	
Jack Pine		90	Pole	7	49	Density	
						Avg. Height	
						Size	
19	4125 - Black, N. Pin Oak	Poletimber Medium	13.9	35	1-50	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Balsam Fir		5	Pole/Sapling	5		Jack Pine	
Jack Pine		5	Pole	7		Black/Red (Hybrid) Oak	
Black/Red (Hybrid) Oak		90	Pole/Sap/Log	5	35	Density	
						Avg. Height	
						Size	
20	429 - Mixed Upland Conifers	Poletimber Well	1.7	90	171-200	N/A	01/24/2012. too steep
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Paper Birch		4	Pole	6		Balsam Fir	
Red Maple		4	Pole/Sapling	5		Density	
Jack Pine		4	Pole/Sapling	5		Avg. Height	
Black/Red (Hybrid) Oak		15	Log/Pole	14		Size	
Northern White Cedar		4	Pole	7			
Balsam Fir		35	Pole	6	90		
Red Pine		20	Log	18	90		
Black Spruce		4	Pole	5			
White Pine		10	Log	18			
21	330 - Low-Density Trees	Nonstocked	2.8			No	gas well in the center with scattered jack pine and oak brush
22	42110 - Planted Red Pine	Sawtimber Medium	34.5	78	51-80	N/A	Stand was thinned in 2004 by harvesting all species except oak and red pine.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Pine		90	Log/Pole	11	78	Black/Red (Hybrid) Oak	
Black/Red (Hybrid) Oak		5	Pole	6		Density	
Jack Pine		5	Pole/Sapling	5		Avg. Height	
						Size	
23	330 - Low-Density Trees	Nonstocked	2.4			No	Shrub with scattered jack pine and oaks
24	4130 - Aspen	Poletimber Well	1.4	45		N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Bigtooth Aspen		90	Pole/Log	8	45		
Red Pine		5	Log	12			
Jack Pine		3	Pole	6			
Red Maple		2	Pole/Sapling	5			





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
<b>25</b>	42110 - Planted Red Pine	Poletimber Well	12.3	35	1-50	N/A	odd variation in red pine sizes. Maybe volunteers were under planted?																																														
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<b>26</b>	6130 - Fir, Aspen, Maple	Poletimber Well	12.2	47		N/A	01/27/2012.																																														
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<b>28</b>	42110 - Planted Red Pine	Sawtimber Well	48.2	76	111-140	N/A																																															
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<b>29</b>	42110 - Planted Red Pine	Sawtimber Well	6.1	88	111-140	N/A	North portion of the parent stand was cut in 2015 (now stand 45) retention is for total stand (29 and 45).																																														
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<b>30</b>	629 - Mixed non-forested wetland	Nonstocked	8.2			No	tag alder with creeks flowing through it.																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**31** 4125 - Black, N. Pin Oak Sapling Medium 9.3 5 Immature N/A

This stand was harvested as part of Timber Sale Name: Snake Pit Mix; Timber Sale No.: 54-033-14-01. 10 BA of residual oak and pine was retained during harvest. Acceptable regeneration is a medium to high density mix of aspen, oak, and pine. Regen Check. If natural regen fails, trench and plant with red pine.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	67	Sapling	1	5
White Pine	10	Sapling	1	
Bigtooth Aspen	15	Sapling	1	
White Pine	3	Log	13	
Red Pine	5	Sapling	1	

**32** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 36.7 90 141-170 N/A

01/27/2012. Confluence of Little Brush Creek and Brush Creek. Illegal ORV trail crossed the creek where the Morris dam was located.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	7	
White Pine	15	Pole/Log/Sap	8	
Paper Birch	10	Pole	8	
Red Pine	5	Log/Pole	11	
Quaking Aspen	5	Pole	7	
Jack Pine	5	Pole	7	
Bigtooth Aspen	5	Pole	9	
Balsam Fir	30	Pole/Sapling	6	90
Black Spruce	5	Pole	6	
Northern White Cedar	5	Pole	7	
Balsam Poplar	10	Pole/Log	10	89

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	5 - 10 feet	Sapling

**33** 4134 - Aspen, Spruce/Fir Poletimber Well 23.3 50 N/A

scattered tag alder pockets throughout.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	50	Pole/Log	9	50
Black/Red (Hybrid) Oak	2	Sapling	4	
Balsam Fir	20	Pole/Sapling	6	
White Pine	10	Pole/Log/Sap	8	
Red Pine	5	Log/Pole	10	
Jack Pine	5	Pole	6	
Red Maple	8	Pole/Sapling	5	

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

**34** 42110 - Planted Red Pine Poletimber Well 11.3 36 51-80 N/A

under planted in 1986

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	5	Sapling/Pole	4	
Red Pine	65	Pole/Sapling	6	36
Jack Pine	15	Sapling	1	
Bigtooth Aspen	5	Pole/Sapling	5	
Red Pine	10	Log	14	83

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**35** 3205 - Mixed Upland Shrub Nonstocked 1.1 No

**36** 42260 - Natural Pine, Mixed Deciduous Poletimber Medium 5.2 75 51-80 N/A 01/26/2012

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	5	Pole	7	
White Pine	15	Pole/Log/Sap	8	
Black/Red (Hybrid) Oak	25	Pole/Sap/Log	8	80
Red Pine	15	Pole/Log	8	
Jack Pine	30	Pole	8	75
Red Maple	10	Pole/Log/Sap	8	

**37** 42110 - Planted Red Pine Sawtimber Well 4.5 75 111-140 N/A

Part south of ORV trail (stand 44) was cut in 2015 Sale # 540341401. Retention along trail is for parent stand 37 (both 37 and 44).

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	90	Log	16	75	Choke Cherry	Low	5 - 10 feet	Sapling
Jack Pine	6	Pole	7		Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	2	Pole/Sapling	6					
Bigtooth Aspen	2	Pole	6					

**38** 4125 - Black, N. Pin Oak Poletimber Medium 21.1 48 1-50 N/A

illegal orv use, party spot

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Sapling/Pole	3		Black/Red (Hybrid) Oak	High	< 5 feet	Sapling
Red Pine	5	Pole/Sap/Log	6		Jack Pine	Low	Variable	Sapling
Jack Pine	10	Sapling/Pole	4					
Bigtooth Aspen	5	Pole	5					
Black/Red (Hybrid) Oak	75	Pole/Sapling	5	48				

**39** 4134 - Aspen, Spruce/Fir Sawtimber Well 7.4 93 Unspecified N/A

Stand contains a steep bank of the creek. Too steep to harvest.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	50	Log/Pole	12	93	Balsam Fir	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	10	Log/Pole	11					
Balsam Fir	30	Pole/Sapling	7					
White Pine	10	Log/Pole	12					

**40** 42120 - Planted Jack Pine Poletimber Well 17.9 36 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	10	Sapling	4		Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
Jack Pine	85	Pole/Sapling	5	36				
Bigtooth Aspen	5	Sapling	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
41	4134 - Aspen, Spruce/Fir	Sapling Well	5.1	35		N/A	01/26/2012																																															
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42	42220 - Natural Jack Pine	Poletimber Medium	16.1	55	51-80	N/A	snowmobile trail and orv trail through stand. lots of illegal trails throughout.																																															
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43	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	4.6	102	141-170	N/A	01/26/2012																																															
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45	3303 - Mixed Low Density Trees	Nonstocked	23.4	0		4211 - Planted Red Pine	Trenched on 8/19/15Planted on 4/22/16 at 946 RP/ac with MI0320 3-0 stockHerbicide on 9/21/17Year 1 Survey on 5/19/17 at 807 RP/ac and 1,080 RP/ac CompetitionYear 3 Survey 10/23/18. 738 red pine TPA. Some oak and jack pine competition. Extreme deer browse on oak. Red pine is free to grow.																																															
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46	4310 - Pine, Oak Mix	Sawtimber Medium	0.7	101	1-50	N/A																																																
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<b>47</b>	4131 - Aspen, Oak	Sapling Medium	7.2	5	Immature	N/A	This stand was harvested as part of Timber Sale Name: Snake Pit Mix; Timber Sale No.: 54-033-14-01. Acceptable regeneration is medium to high density aspen with mixed pine.																											
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<b>48</b>	3205 - Mixed Upland Shrub	Nonstocked	1.0				gas well in the center with scattered jack pine and oak brush																											
<b>49</b>	42110 - Planted Red Pine	Sapling Well	12.2	28	Immature	N/A	fire hazard/salvage cut in 1991 from outbreak of jack pine bud worm.																											
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