



# Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54167

Entry Year 2025

Acreage: 1,529

County Cheboygan

Management Area: Presque Isle Lake and Till Plains

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**Stand Examiner:** John St. Pierre

**Legal Description:**

T38N, R1E, Section 29-32

**Identified Planning Goals:**

To provide for the protection, integrated management and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan.

**Soil and topography:**

Soils are somewhat to excessively drained sands. Dominating soil types are rubicon sands and east lake sands. Aspen, red pine and mixed upland deciduous are the dominating cover type species. The topography is flat. The forest habitat types are primarily PArVHa and PArVVb. Forested and non-forested lowland covertypes are mostly within the SE corner of the compartment.

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

State of Michigan ownership is contiguous within the interior of the compartment. State land borders the southern and western boundary of this compartment. Private residences or US 23 border the northern line of the compartment. Privately owned property borders the entire eastern boundary.

An inactive gravel pit, located on Stand land, resides at the north-end of Section 32. Two gravel pits, located on privately property, are present within Section 29 (SESW). A Michigan State Police (MSP) tower is located just northwest of the gravel pit and south of US 23 (in Section 29).

**Unique Natural Features:**

Element occurrence consists of a Prairie Warbler observation from May 17th, 1986. Location of observation is recorded as being near the south end of Section 30. Possible occurrences include Hairy Sunflower, this was first/last observed on August 12th, 1938. The area where this occurrence might be present is roughly 34,000 acres and centered near Duncan Bay. A Special Concern Area (SCA) is located in the southwest 1/4 of Section 30. The SCA captures a (seasonal) vernal pool complex and is Stand 64 within the compartment.

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

There are no known archeological, historical or cultural features identified within Compartment 167.

**Special Management Designations or Considerations:**

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:**

Featured species in this compartment include ruffed grouse and white-tailed deer. There is an occurrence of rare warbler in the compartment which benefits from early successional habitat. Aspen in this compartment is generally 'offsite' and stunted due to poor soils but should be maintained regardless for benefits to wildlife.

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

Two active sand/gravel operations abut the compartment in Sec 29. There is likely potential for additional sand & gravel within the compartment, on the uplands. No known potential exists for oil & gas from known producing formations in this area. There is no known metallic mineral potential in this part of the state.

**Vehicle Access:**

County Roads, Forest Roads and Black Lake ORV Trail provide good access to a large segment of this compartment. Newly created roads from harvest/management operations should be quickly closed to prevent unnecessary access and/or resource degradation.

**Survey Needs:**

There might be a need for survey work in Section 29. Specifically, State, private and/or US 23 interface locations along Stand 6 (west line) and Stand 18 (northwest corner). All remaining survey corners have essentially been located, GPS'd and populated in a relevant database.

**Recreational Facilities and Opportunities:**

Black Lake ORV Trail winds through the southwest portion of this compartment (Section 31 and a small portion of Section 32).

**Fire Protection:**

Fire protection, suppression and response resources are provided by the Onaway DNR Field Office and local Volunteer Fire Departments (VFD's).

**Additional Compartment Information:**

The following reports from the Inventory are attached:

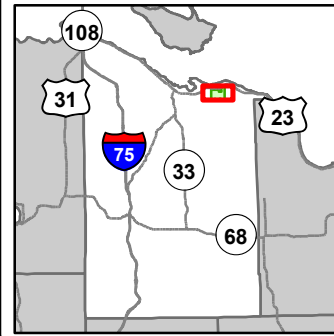
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

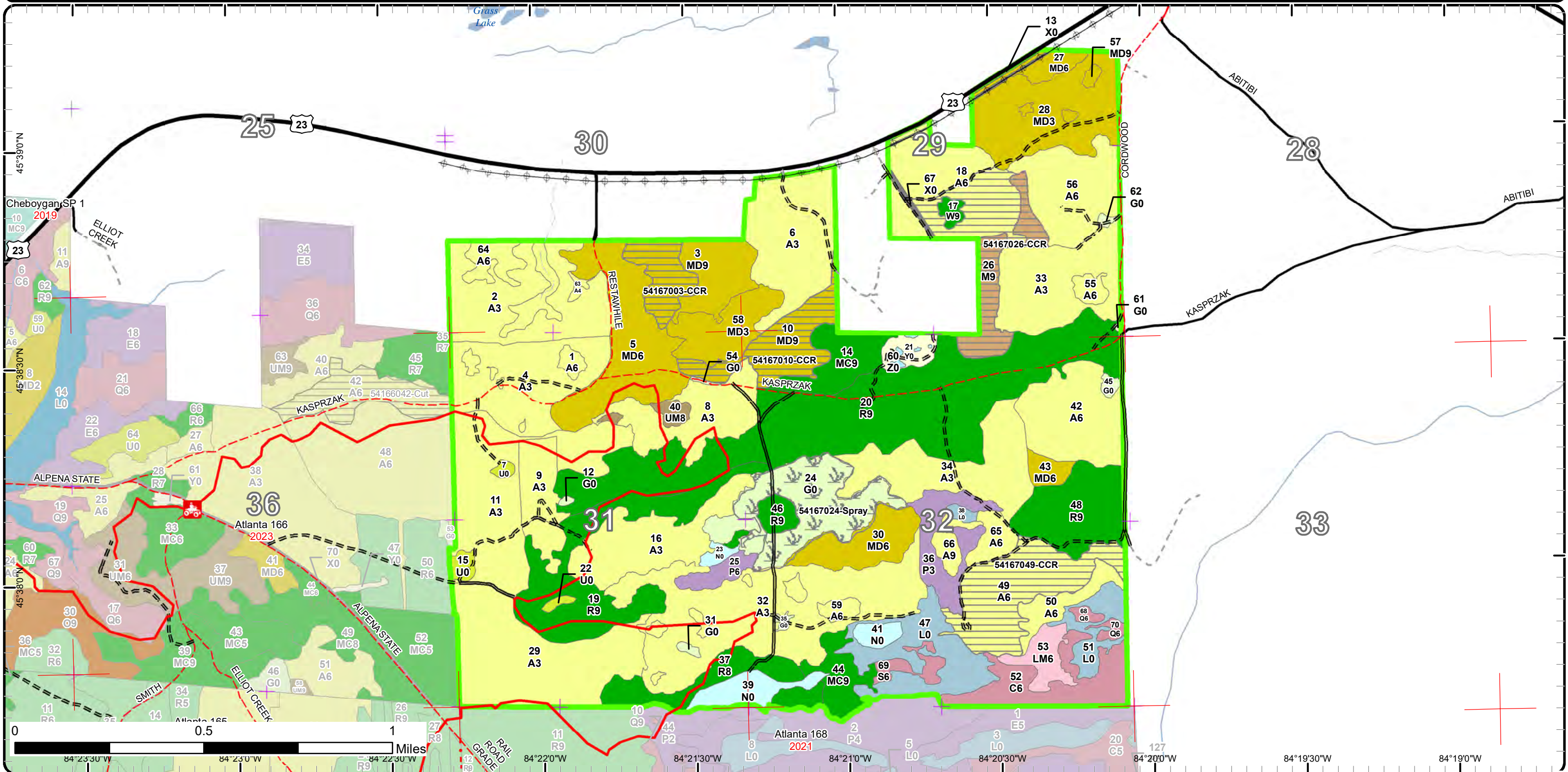
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 167  
 T38N, R01W, Sec. 29-32  
 County: Cheboygan  
 Unit: Atlanta  
 Mgmt Area: Presque Isle Lake and Till Plains  
 YOE: 2025  
 Acres: 1529.3 GIS Calculated  
 Examiner: John St. Pierre  
 Map Revised: 6/12/2023  
 Map Phase: Review

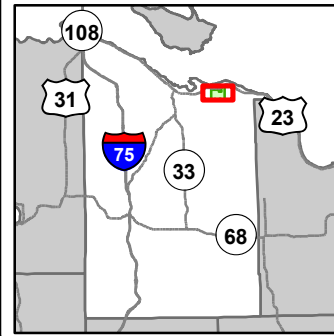


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- 🚲 ORV Trails
- Designated ATV
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Pesticide
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand/Soil

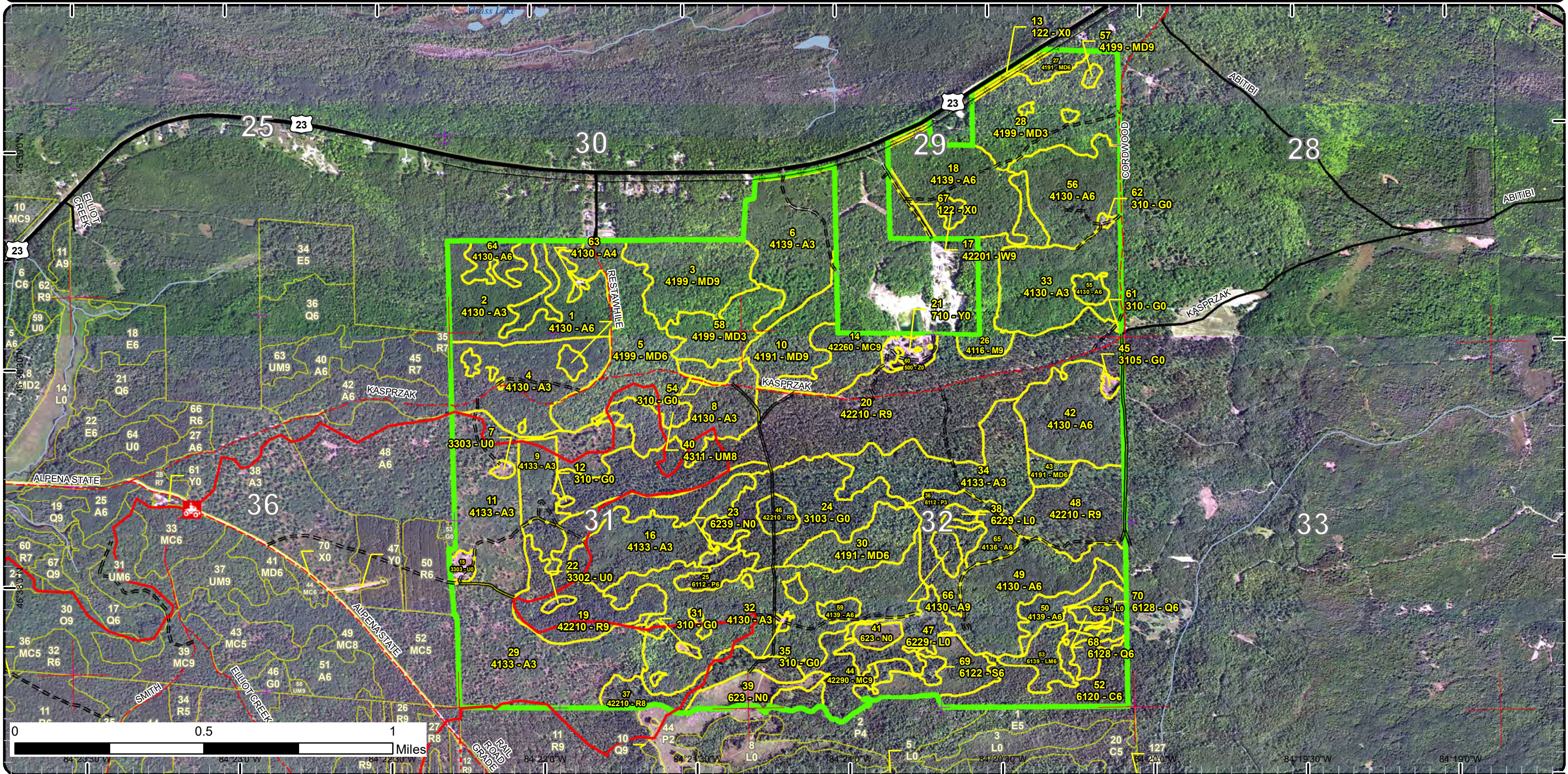


# Stand Boundary Map

Compartment: 167  
 T38N, R01W, Sec. 29-32  
 County: Cheboygan  
 Unit: Atlanta  
 Mgmt Area: Presque Isle Lake and Till Plains  
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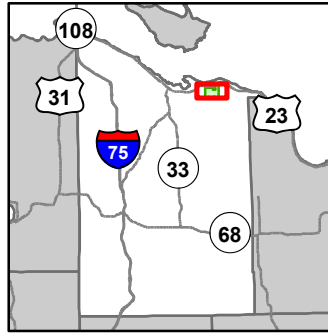


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
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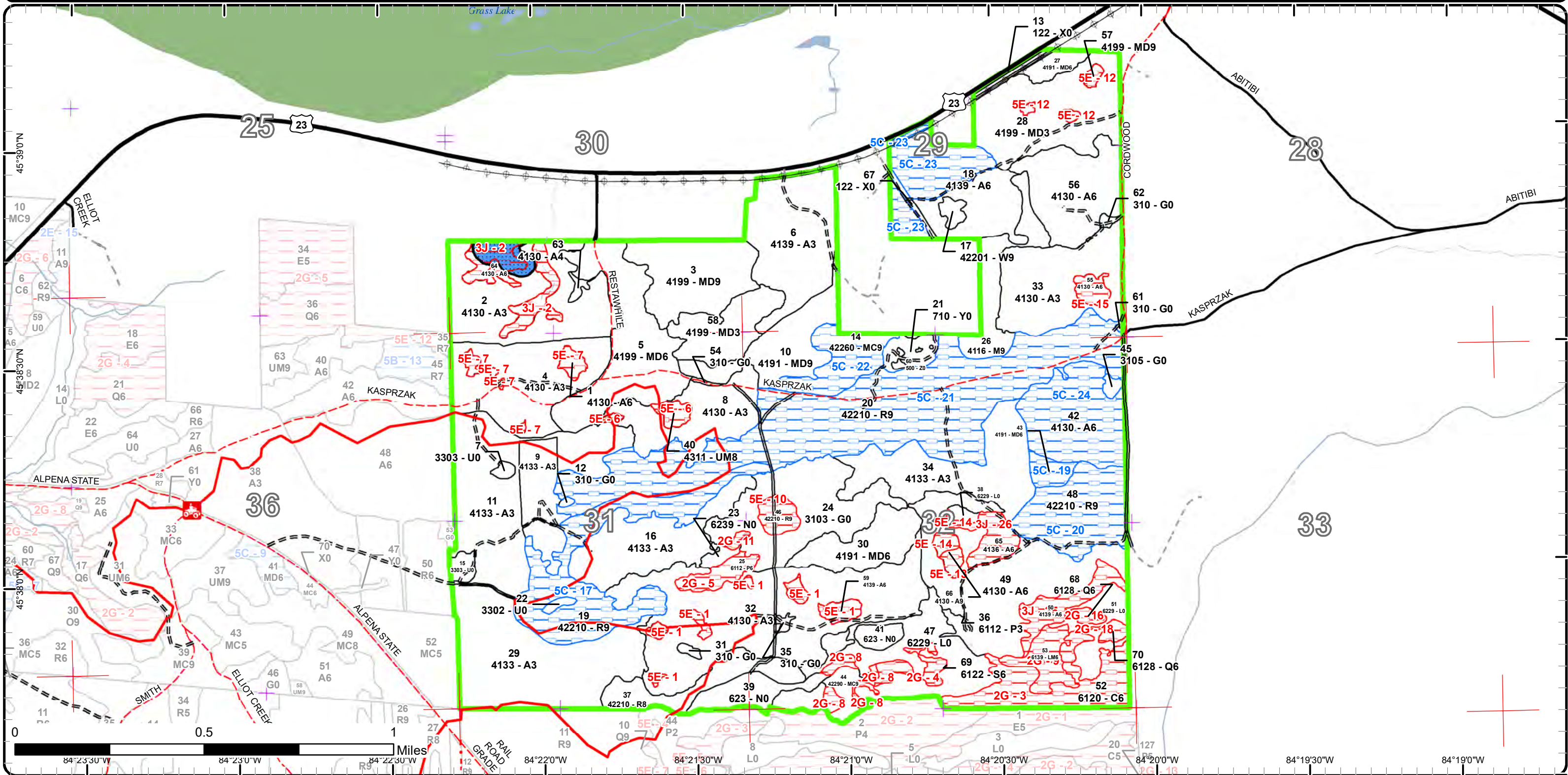


# Special Conservation Areas

Compartment: 167  
 T38N, R01W, Sec. 29-32  
 County: Cheboygan  
 Unit: Atlanta  
 Mgmt Area: Presque Isle Lake and Till Plains  
 YOE: 2025  
 Acres: 1529.3 GIS Calculated  
 Examiner: John St. Pierre  
 Map Revised: 6/12/2023  
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- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
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- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ORV Trails
- Designated ATV
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Critical Coastal Habitat (Piping Plover)
- Cold Water Streams
- Riparian Area



# Report 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit

Compartment 167 Year of Entry 2025

John St. Pierre : Examiner



## 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	263	107	116	57	147	57	16	0	0	5	0	0	0	0	0	0	0	768
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	30
Herbaceous Openland	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
Low-Density Trees	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Aspen/Balsam Poplar	0	20	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	27
Lowland Conifers	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	4
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	10
Lowland Shrub	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6
Marsh	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Mixed Upland Deciduous	0	71	0	0	0	50	0	65	0	8	0	28	0	0	0	0	0	0	222
Natural Mixed Pines	0	0	0	0	0	0	0	0	14	0	19	0	0	0	0	0	0	0	33
Northern Hardwood	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	20
Red Pine	0	0	0	0	0	0	0	0	25	234	7	0	0	0	0	0	0	0	264
Sand, Soil	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
White Pine	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
<b>Total</b>	<b>138</b>	<b>354</b>	<b>107</b>	<b>116</b>	<b>57</b>	<b>204</b>	<b>57</b>	<b>81</b>	<b>39</b>	<b>284</b>	<b>35</b>	<b>28</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>1529</b>



## Report 2 – Treatment Summary

Atlanta Mgt. Unit

Compartment 167

Year of Entry: 2025

Acres of Harvest

Total Compartment Acres: 1,529

Commercial Harvest - 131  
 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	67	0	0	0	0	0	0	0	0	67
Mixed Upland Deciduous	44	0	0	0	0	0	0	0	0	44
Northern Hardwood	21	0	0	0	0	0	0	0	0	21
<b>Total</b>	<b>131</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>131</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	131	0	0	0	0	41	0	0	0	172
Next Step	0	0	41	0	0	0	312	0	0	353
<b>Total</b>	<b>131</b>	<b>0</b>	<b>41</b>	<b>0</b>	<b>0</b>	<b>41</b>	<b>312</b>	<b>0</b>	<b>0</b>	<b>525</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>3</b>	<b>54167003-CCR</b>	16.0	4199 - Other Mixed Upland Deciduous	Sawtimber Well	62	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut w/Retention</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> <li>- Mark to leave a majority of the smaller DBH, higher-quality Red Oak present in sale area. Focus leaving stems ~4-9" DBH, including SAPLINGS, with clean form/fuller crowns. Evaluate equipment mobility before selecting oak.</li> <li>- When able, protect oak by leaving non-oak "bumper-trees" around residual (oak). Favor non-merch stems and/or pine as "bumper-trees".</li> <li>- Leave some red/white pine, in clumps or as individuals. Residual BA can vary upon location but should not exceed 5BA avg across the sale</li> <li>- Place retention around desirable oak too dense for equipment. Capture other representative species too.</li> <li>- Leave hemlock. Exclude any legacy trees and protect in specs.</li> <li>- Use short-wood, oak wilt (no exceptions) and drumming log (5.2.4.4) specs. Include STRINGENT specs protecting oak.</li> </ul> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate or better mixture of aspen, red maple, red oak, hard maple and pine. Three years after harvest, assess survival/health of the smaller diameter oak that was left. Assess oak and regen success during re-inventory.</p> <p><u>Other Comment:</u> Partial harvest of Stand 3. Rx focused on pockets of mature aspen and large/older red oak. MNFI 'hit' for Prairie Warbler is centered west of sale area, essentially on Restawhile Rd. Date of last observation: 5/17/86. See Stand 10 comments about a centralized landing.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											

<b>10</b>	<b>54167010-CCR</b>	27.5	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	102	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut w/Retention</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> <li>- Capture some healthy, mast/seed producing oak and pine within two or more retention areas.</li> <li>- Exclude legacy trees and protect in specs. At least 3 legacy white pine and 1 legacy red oak observed in sale area.</li> <li>- Designate drumming log trees (paint them), 1-2 per acre, to be cut or pushed over after the unit has been harvested. When available, mark larger examples (12"+ DBH) of species that decompose slowly (oak, maple, white pine, etc).</li> <li>- Leave incidental hemlock. Protect red and white pine regen in specs.</li> </ul> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate or better stocking level mixture of aspen, red maple, oak, birch and pine. Expect a strong initial response from beech and ironwood</p> <p><u>Other Comment:</u> Corners to establish east boundary are "in"/were located. Recommend the producer re-establish the landing in Stand 58 (MD3), to centralize operations in this Stand/Stand 3. MNFI 'hit' for Prairie Warbler is centered west of sale area, essentially on Restawhile Rd. Date of last observation: 5/17/86.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</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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18	54167018-CCR	22.0	4139 - Aspen, Mixed Deciduous	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Clearcut w/Retention

Specs:

- Use Forest Rd as north boundary. Expand in/out as needed.
- Mark to leave a majority of the smaller DBH, higher-quality Red Oak present in sale area. Focus leaving stems ~4-9" DBH, including SAPLINGS, with clean form/fuller crowns. Evaluate equipment mobility before selecting oak.
- When able, protect oak by leaving non-oak "bumper-trees" around residual (oak). Favor non-merch stems and/or pine as "bumper-trees".
- Leave some red/white pine, in clumps or as individuals. Residual BA can vary upon location but should not exceed 5BA avg across the sale
- Place retention around desirable oak too dense for equipment. Capture other representative species too.
- Leave hemlock. Exclude legacy trees and protect in specs. At least one nearby in Stand 26 Rx (31.5" WhtPine).
- Use short-wood, oak wilt (no exceptions) and drumming log (5.2.4.4) specs. Include STRINGENT specs protecting oak.

Next Step Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Moderate or better mixture of aspen, red maple, red oak, hard maple and pine. Three years after harvest, assess survival/health of the smaller diameter oak that was left. Assess oak and regen success during re-inventory.

Other Comment: Partial harvest of Stand 18, Rx focused on the more evenly merch portion of stand. Sale boundary against PVT already established.

Site Condition

Proposed Start Date: 10/1 /2024

26	54167026-CCR	20.5	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	85	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Clearcut w/Retention

Specs:

- Mark to leave a majority of the smaller DBH, higher-quality Red Oak present in sale area. Focus leaving stems ~4-9" DBH, including SAPLINGS, with clean form/fuller crowns. Evaluate equipment mobility before selecting oak.
- When able, protect oak by leaving non-oak "bumper-trees" around residual (oak). Favor non-merch stems and/or pine as "bumper-trees".
- Leave some red/white pine, in clumps or as individuals. Residual BA can vary upon location but should not exceed 5BA avg across the sale
- Place retention around desirable oak too dense for equipment. Capture other representative species too.
- Leave hemlock and yellow birch. Exclude legacy trees and protect in specs. At least one present (31.5" WhtPine).
- Use short-wood, oak wilt (no exceptions) and drumming log (5.2.4.4) specs. Include STRINGENT specs protecting oak.

Next Step Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Moderate or better mixture of aspen, red maple, red oak, hard maple and pine. Three years after harvest, assess survival/health of the smaller diameter oak that was left. Assess oak and regen success during re-inventory

Other Comment: Sale boundaries against PVT already established.

Site Condition

Proposed Start Date: 10/1 /2024



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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>49 54167049-CCR</b>	45.0	4130 - Aspen	Poletimber Well	49	111-140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut w/Retention</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> <li>- Two stick nests present, one in west (in xlog RO), second in east in log QA along Std.50 (see Ref.Points). Unsure if active during spring '23. Follow 'Woodland Raptor Guidelines' when excluding these nests from the sale area.</li> <li>- Establish at least two retention areas. Capture some of the few scattered log/xlog red oak and red pine within retention.</li> <li>- Leave incidental white pine. These stems will provide a current/future seed source, vertical structure and opportunity for utilization by various wildlife species.</li> <li>- Designate drumming log trees (paint them), 1-2 per acre, to be cut or pushed over after the unit has been harvested. When available, mark larger examples (12"+ DBH) of species that decompose slowly (oak, maple, ok to mark some WP).</li> <li>- Include brush pile/rabbitat spec (5.2.4.2). Focus piles along southern boundary, against lowland stands (including Stand 50).</li> </ul> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate or better mixture of aspen and red maple. Expect minor components of birch, fir and pine to develop over time.</p> <p><u>Other Comment:</u> Do not expand treatment boundary into Stand 50 in south. The stand likely contains a series of vernal pool complexes and is seasonally wet.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

**Approved Treatments:**

<b>24 54167024-Spray</b>	40.8	3103 - Rubus-Fern	Nonstocked	0	Unspecified	Pesticide	ERROR	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Site prep spray for flat planting.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Unfurrowed; Monitoring, Artificial Regen(1yr); Monitoring, Herbicide Use; Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> -regen survey 3-5 years</p> <p><u>Regen:</u> -acceptable regeneration is rp, aspen, wp, and rm</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

**Total Treatment Acreage Proposed: 171.8**

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
John St. Pierre : Examiner

Compartment: 167  
Year of Entry: 2025

### Availability for Management

Total Acres	Acres Available	Acres Avail			Dominant Site Conditions			
		With Condition	Not Available		5C	2G	3J	5E
769	647	<b>65</b>	57	Aspen	<b>65</b>		34	22
30	0	<b>0</b>	30	Cedar		30		
51	51	<b>0</b>	0	Herbaceous Openland				
6	6	<b>0</b>	0	Low-Density Trees				
26	20	<b>0</b>	7	Lowland Aspen/Balsam Poplar		7		0
4	0	<b>0</b>	4	Lowland Conifers		4		
10	0	<b>0</b>	10	Lowland Mixed Forest		10		
48	48	<b>0</b>	0	Lowland Shrub				
6	0	<b>0</b>	6	Lowland Spruce/Fir		6		
19	19	<b>0</b>	0	Marsh		0		
221	214	<b>5</b>	3	Mixed Upland Deciduous	<b>5</b>			3
33	9	<b>19</b>	5	Natural Mixed Pines	<b>19</b>	5		
21	21	<b>0</b>	0	Northern Hardwood				
265	24	<b>234</b>	7	Red Pine	<b>234</b>	1		6
7	7	<b>0</b>	0	Sand, Soil				
4	0	<b>0</b>	4	Upland Mixed Forest				4
6	6	<b>0</b>	0	Urban				
1	1	<b>0</b>	0	Water				
3	3	<b>0</b>	0	White Pine				
1,529	1,075	<b>323</b>	131	Total Forested Acres	<b>323</b>	62	34	34
	70%	<b>21%</b>	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	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long-Term Retention within Stand 32 for timber sale "Muttering Expletives Aspen".							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
John St. Pierre : Examiner

Compartment: 167  
Year of Entry: 2025

2	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	16	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Excluded during sale prep for 'Ms. Keytoe Aspen', 54-008-15-01. Multiple vernal pools located (see OFS points), buffered from harvest using approx. two-chains. East polygon of site condition is a drainage course. West poly holds seasonally low ground and vernal pools complexes. Protection of amphibian habitat a priority/reason for exclusion.							
3	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Lowland sensitive soils with seasonal drainages. 'Too wet' to support conventional harvest equipment.							
4	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	6	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small acreage, generally small diameters and surrounded by 'Too wet'.							
6	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long-Term Retention for sale 'Rigamarole Red Pine Mix', 54-006-15-01. Representation of its former parent stand, Stand 8.							
7	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long-Term Retention for "Ms. Keytoe Aspen", sale number 540051501.							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
John St. Pierre : Examiner

Compartment: 167  
Year of Entry: 2025

8	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Drainage(s) and lowland interface areas present within this Stand (44). Seasonally inundated soils and likely unable to support the weight of conventional harvest equipment.							
9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Lowland sensitive soils with seasonal drainages. 'Too wet' to support conventional harvest equipment.							
10	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Island retention for the timber sale (Rigamarole Red Pine) that occurred within Stand 24.							
11	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Originally part of Stand 24, boundary excluded during sale prep in '15. This area seasonally holds water originating/flowing from Stands 23/25. Deemed too sensitive to handle trenching/planting operations.							
12	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long-Term retention for Stand 28, part of Cy Young Aspen.							
13	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long-term retention created for (formally) Stand 40 (A9) following harvest 'Muttering Expletives Aspen', 540071501.							

## Report 4 – Site Conditions

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14	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Long-term retention created for (formally) Stand 36 (P8) following harvest 'Muttering Expletives Aspen', 540071501.</p>							
15	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Long-Term retention for the timber sale (540081501, Cy Young HD Aspen) occurring within this stand (33).</p>							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Lowland sensitive soils with seasonal drainages. 'Too wet' to support conventional harvest equipment. Also, a lowland stand surrounded by additional lowland.</p>							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	51	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Age of stand is causing it to 'meet criteria'. No proposed management at this time. When paired with its neighbor (Std.20), this is a large/contiguous NATURAL red pine (w/white pine &amp; oak) resource for the area. Maintain for structural/size-class diversity, consider a future crown thin when BA's reach appropriate levels.</p>							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Lowland sensitive soils with seasonal drainages. 'Too wet' to support conventional harvest equipment. Also, a lowland stand surrounded by additional lowland.</p>							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> See stand comments regarding future management considerations.</p>							

## Report 4 – Site Conditions

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20	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Thinned plus deciduous removal in '12. Age is tripping the 'meets criteria' switch. See stand comments regarding future management considerations.							
21	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	150	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Thinned plus deciduous removal in '12. Age of stand is causing it to 'meet criteria'. No proposed management at this time. When paired with its neighbor (Std.19), this is a large/contiguous NATURAL red pine (w/white pine & oak) resource for the area. Maintain for structural/size-class diversity, consider a future crown thin when BA's reach appropriate levels.							
22	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Prefer to hold this stand. Essentially the only mixed pine stand in Comp 167 that hasn't had a recent deciduous removal + crown thin. Stand offering a lot of deciduous cavity production and recruitment of desirable regeneration.							
23	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	27	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	39	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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25	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	11	3A: Conservation Values incompatible with harvest at this time	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
<p><b>Comments:</b> Recommend leaving this stand intact. Majority of stand likely serving as a series of vernal pool complexes, based on field observation in May of '23. Also acting as a hydraulic pump/seasonal 'sponge' for the adjacent lowlands on south. Some locations 'Too wet' with sensitive soils to support conventional harvest equipment.</p>							
26	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	8	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Recommend leaving this stand intact. Majority of stand likely serving as a vernal pool complex, based on field observation in May of '23. Also acting as a hydraulic pump/seasonal 'sponge' for the adjacent (seasonal) lowland(s) on west.</p>							



Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



### 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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
<b>1</b>	4130 - Aspen	Poletimber Well	4.9	57	51-80	N/A	These stands (all Stand 1) are serving as long-term retention for the harvest that occurred within its parent stand, Stand 4. Stand 4 harvested under sale 'Ms. Keytoe Aspen', 54-008-15-01. Cut March 2018. Above canopy/sub-canopy data is Coy's from '13. The five retention islands all carry differing composition of species. Some are nearly pure aspen (larger east poly) then mix of oak, pine, aspen, maple and such (four western polys).			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		25	Pole/Log	7		Balsam Fir		Medium	Variable	Sapling
Balsam Poplar		5	Pole/Sapling	6		Sugar Maple		Medium	>20 feet	Sapling
Bigtooth Aspen		40	Pole/Log	7	57	Red Maple		Medium	>20 feet	Sapling
Red Pine		2	Log	14		Beech		Low	Variable	Sapling
Red Maple		15	Pole/Sapling	6						
Beech		5	Pole/Log	7						
Paper Birch		5	Pole/Sapling	6						
Red Oak		3	Log/Pole	14						
<b>2</b>	4130 - Aspen	Sapling Well	50.4	5	Immature	N/A	PU1 of 'Ms. Keytoe Aspen', 540051501, E.H. Tulgestka & Sons, harvested 4/2018. Though early, this stand appeared to be regenerating well. A lot of aspen that's mixing fairly well with red maple and then minor components of other species. Pine/oak left unharvested as were a few hemlock. Noticeable layer of seedling size WP, most less than 2ft tall (on 4/24/23). West half of stand features seasonally wet and somewhat saturated soils. Stand 26 (BMP/Retention site condition) is the result of excluding vernal pool complexes/drainages during sale prep in this stand.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Pine		2	Log/Pole/Sap	12	68	Tag Alder		Low	< 5 feet	Tall Shrub
Red Maple		20	Sapling	1		Blackberry/Raspberry		Medium	< 5 feet	Tall Shrub
Sugar Maple		2	Sapling	1		Red Osier Dogwood		Low	< 5 feet	Tall Shrub
Red Oak		3	Log/Pole/Sap	12	68	Balsam Poplar		Low	5 - 10 feet	Sapling
Beech		2	Sapling	1		Balsam Fir		Low	< 5 feet	Sapling
Paper Birch		2	Sapling	1		White Pine		Medium	< 5 feet	Seeding
Quaking Aspen		25	Sapling	1						
Bigtooth Aspen		42	Sapling	1	5					
Red Pine		2	Log/Pole/XLog	14	68					
<b>3</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	36.4	62	81-110	N/A	Variable size classes/ages present, similar to other MD and A stands in this compartment. Some locations pole dominant (~E1/2), others log (~W1/2). Two age classes of RO, larger/older stems that were left when last cut, then younger/smaller stems that were ~60ish years old (in '23, a 5.1" RO aged 62yrs). Younger/smaller RO ranged large sap to small pole, a few topped out close to 12"DBH. This stand is more/less 'lousy' with this younger/smaller RO component. Nearly all the oak (sap-xlog) is average to good quality (clean, healthy crowns, better form). Fairly distinct 2-3ac area in NE that's M9 dominant. Aspen is generally present in scattered clonal clumps. Small component of hemlock present in S/SW. BA swings= 60, 110, 120, 150, 50, 100, 110 (100avg).			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Oak		25	Log/XLog/Pole	16	94	Red Oak		High	>20 feet	Sapling
Paper Birch		2	Pole/Log	8		White Pine		Low	10 - 20 feet	Sapling
Bigtooth Aspen		25	Log/Pole/XLog	11	62	Ironwood		Low	10 - 20 feet	Sapling
Red Pine		3	Log/Pole	10		Striped Maple		Low	Variable	Sapling
Red Maple		26	Pole/Log/Sap	7	62	Sugar Maple		Low	>20 feet	Sapling
Quaking Aspen		3	Pole/Log	8	46	Red Pine		Low	10 - 20 feet	Sapling
Sugar Maple		5	Pole/Log/Sap	7		Red Maple		Medium	>20 feet	Sapling
Hemlock		2	Log/Pole	12		Balsam Fir		Low	< 5 feet	Sapling
Beech		2	Pole/Log	8		Serviceberry (Juneberry)	Low	Variable	Sapling	
Basswood		2	Log/Pole	14		Beech	Low	Variable	Sapling	
White Pine		5	Log/Pole/XLog	11						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																																				
4	4130 - Aspen	Sapling Well	45.4	5	Immature	N/A	PU2 of 'Ms. Keytoe Aspen', 540051501, E.H. Tulgestka & Sons, harvested 3/2018. Though early, this stand appeared to be regenerating well. A lot of aspen that's mixing fairly well with red maple and then minor components of other species. A few maple/oak poles present that went unharvested. Noticeable layer of seedling size WP, most less than 2ft tall (on 4/24/23). Oak and hard maple that has made it above browse height is present along/close to forest roads.																																																																																																				
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5	4199 - Other Mixed Upland Deciduous	Poletimber Well	50.0	46	51-80	N/A	Species removal that left pine/oak occurred here ~'72-77ish timeframe based on current ages. Variable diameters present yet small-medium size poles tend to be most common. Exceptions being in areas where more residual oak/pine are present. Scattered log size aspen singles and clumps common. Good (overall) advanced oak regen present, most large sap/small pole size and >20ft (some 10-20ft too). Xlog oak present too (I didn't show that in canopy list). Conifer/Pine (mainly WP) more prominent in N1/2, then scattered throughout. Trace BW, log. BA range is 'right on the line', BA swings=130,110,90,70,120,90,50,40,50,50 (80avg).																																																																																																				
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6	4139 - Aspen, Mixed Deciduous	Sapling Well	46.7	26	1-50	N/A	Harvested in '96, 'Firehall Aspen', 51-030-95-01. Variable between aspen dominant and then mixed-deciduous (dominant). A little bit of everything is present depending on location. Oak, Hemlock and some pine were left. More residual oak in south, some of which are quite large and all looked healthy (the ones I saw). Minimal residual pine, including trace RP. Admin roads still present but require opening maintenance if needing to be used. Some areas of stand might briefly hold water (seasonally).																																																																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
8	4130 - Aspen	Sapling Well	31.5	4	1-50	N/A	PU1 of 'Rigmarole Red Pine Mix', 540061501, Precision Forestry, cut 4/2019. Oak and pine were marked to leave in clumps (2-3) and a rate of ~1-clump per acre. Fewer oak/pine were left in the west half (pine had small crowns there, heavier deciduous component). West half is for sure 75-100% closure, east half slower to respond and had a heavier component of pine (prior to harvest). East is high-end of 50-75% closure (on 4/24/23). Noticeable layer of WP seedlings present, most less than 2ft tall. RO stump-sprouts have been noticeably/heavily browsed, some RM too. My opinion that pine (probably WP) should continue to seed in, especially in east half. Expect west to be deciduous dominant for some time.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	28	Sapling	1		White Pine	Medium		< 5 feet	Seeding
Red Oak	6	Sapling/Pole/Log	1		Juniper	Low		< 5 feet	Tall Shrub
White Pine	3	Log/Pole/Sap	12		Blackberry/Raspberry	Low		< 5 feet	Tall Shrub
Bigtooth Aspen	60	Sapling	1	4	Beech	Low		< 5 feet	Sapling
Red Pine	3	Log/Pole/Sap	14	74					
9	4133 - Aspen, Mixed Pine	Sapling Well	14.2	37	1-50	N/A	Similar to Stands 11/29, left RP, WP and RO when last harvested. At least 2-age classes of pine, those that were left (saps through log) and then some that have since seeded in. Similar story with respect to oak. Harvested same timeframe as Stand 16. O.R.V. trail passes through stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	58	Sapling/Pole	4	37	Ironwood	Low		10 - 20 feet	Sapling
White Pine	8	Log/Pole/Sap	12		Paper Birch	Low		>20 feet	Sapling
Red Pine	15	Pole/Sap/Log	5		Beech	Low		5 - 10 feet	Sapling
Red Oak	8	Log/Pole/Sap	12						
Sugar Maple	3	Sapling	3						
Red Maple	8	Sapling/Pole	3						
10	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	27.5	102	81-110	N/A	Trace BW in S.W. (P/L) and 3-4% BE (P/L). Beech observed during dormant season, hard to say how many were alive (all in rough shape). Every bit an MD w/Pine stand, broad mix. Oak (not all) and some pine are older (100ish), stump-sprt RM and Aspen are pushing ~80ish years (those are the younger stems in stand). Sub-can RO/WP and some RP are doing well/are dense in some areas. Legacy WP (at least 3) and Oak (saw 1) observed. Some scattered/a few 22-24" WP/RP present. Though not consistent, clumps of Hemlock are here/there, as are some 10-20ft saps. Consistent PB snags throughout, though very few are log size. Cavity/large/gnarly aspen present too. BA swings= 120,70,60,140,110,50,80,130 (95avg).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	18	Log/Pole/XLog	12		Hemlock	Low		10 - 20 feet	Sapling
Red Pine	4	Log/Pole/XLog	14		Red Pine	Low		10 - 20 feet	Sapling
Quaking Aspen	2	Log/Pole	12		Balsam Fir	Low		Variable	Sapling
Red Maple	20	Pole/Sap/Log	7	80	Ironwood	Low		10 - 20 feet	Sapling
Sugar Maple	2	Pole/Log	9		Red Maple	Medium		>20 feet	Sapling
Paper Birch	4	Pole/Log	9		Sugar Maple	Low		>20 feet	Sapling
Red Oak	28	Log/Pole/XLog	15	102	Red Oak	Medium		10 - 20 feet	Sapling
Bigtooth Aspen	20	Log/XLog/Pole	14	80	Beech	Medium		10 - 20 feet	Sapling
Hemlock	2	Pole/Log/XLog	9		Juniper	Low		< 5 feet	Tall Shrub
11	4133 - Aspen, Mixed Pine	Sapling Well	61.8	15	1-50	N/A	Quite similar to Stand 29, albeit younger and a bit less pine component at its current development stage. Same scattering of oak, RP and WP that were left during harvest. Many of the RP/WP were likely sub-canopy occupants at time of harvest. Then some pine that seeded in following cut. BTA stems averaged ~2.5" DBH.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	5	Log/Pole/Sap	14		Jack Pine	Low		>20 feet	Pole
Quaking Aspen	3	Sapling	2		Beech	Low		5 - 10 feet	Sapling
Bigtooth Aspen	62	Sapling	3	15	Black Cherry	Low		>20 feet	Sapling
Black/Red (Hybrid) Oak	4	Log/Pole/Sap	14	72	Juniper	Low		< 5 feet	Tall Shrub
White Pine	5	Log/Pole/Sap	11						
Red Pine	15	Pole/Sap/Log	5						
Red Maple	6	Sapling	2						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																							
12	310 - Herbaceous Openland	Nonstocked	0.5		Unspecified	No																																																																								
13	122 - Road/Parking Lot	Nonstocked	4.1	0	Unspecified		US23 and powerline corridor.																																																																							
14	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	18.9	94	111-140	N/A	Variable diameters, mixed ages and inconsistent density/BA ranges. From a structural standpoint, this stand is quite diverse. Aspen and PB offering high-class cavity production and some snag material. Red maple very much appears to of been 'removed' in the past, most stems smaller DBH/stmp-sprt origin. Yet maple is older than appearance suggests. Scattered/consistent oak, some look 'gnarly'/growing in suppressed conditions, but most appear healthy. At least 2-age classes of pine, fire origin/older stems then some that established later on down the line. Southern ~2/3 holds higher concentration of pine, north 1/3 and east holds more pine/deciduous mix. WP sap density averages out to 'high', isn't consistent throughout. BA swings= 160,40,150,60,140,120,160,120 (118avg).																																																																							
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15	3303 - Mixed Low Density Trees	Nonstocked	3.1		Unspecified	Managed Opening	Low-density sapling RP, RM and RO, somewhat higher density closer to perimeter. Scattered log RO (perimeter) and some juniper.																																																																							
16	4133 - Aspen, Mixed Pine	Sapling Well	43.2	36	51-80	N/A	Two-polygon stand, deciduous removal (including oak) in ~87. Smaller west poly and the S1/2 of larger (east) poly have higher residual RP/WP. Could call both areas MC7/8, yet sub-can still high stocking of deciduous and conifer regen. Less residual in N1/2 of east poly. This has allowed for generally larger DBH growth of regen. Many stems near pole size or have just converted in N1/2. One of the very few (older) Rx's where oak was harvested (but still left RP/WP). Some decent RO regen, many stems the same size or larger DBH as the aspen that's free to grow.																																																																							
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17	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	2.6	87	111-140	N/A	Pine pocket when surrounding stand was harvested. Regenerating deciduous species are beginning or have moved into pole sizes. Canopy closure is 75-100% after factoring in the area occupied by both the residual white pine and pole/sap size deciduous.																																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>18</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	48.7	52	81-110	N/A	Variable diameters and a few ages floating around (in '23 I aged 39/46/52yrs). The north 1/2 (more/less north of Forest Rd) and wedge west of Lofgren Pit Rd held swathes of aspen w/smaller DBH's (5-7"ish) and some younger (aspen) ages. Soils likely just a bit 'poorer' there plus competition w/conifer and NHD species. South 1/2 (more/less south of the Forest Rd) held generally larger pole sizes (some logs). Slight elevation gain there, likely better soils. Older/larger WP/RP present (left uncut during previous harvest) as well as some RO/HM/BE (appears most oak was cut the last go-round, but residuals still common in some locations). Very consistent RM saps (could call 'Full') and GOOD Red Oak regen (High in areas) in many locations. Fairly strong hard maple sap layer in N/NE. Trace PB poles present. 3ac inclusion (formally an O8 stand) in northwest (south of p-line corridor). BA swings= 70,80,60,120,180,130,70 (101avg).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	16	Pole/Sap/Log	6		White Pine	Low		10 - 20 feet	Sapling
Bigtooth Aspen	44	Pole/Log/Sap	8	52	Balsam Fir	Low		Variable	Sapling
Beech	2	Log/Pole/XLog	12		Balsam Fir	Trace		>20 feet	Pole
Red Maple	20	Pole/Sap/Log	7		Sugar Maple	Medium		>20 feet	Sapling
Quaking Aspen	3	Pole/Sapling	7	39	Paper Birch	Low		>20 feet	Sapling
Red Pine	2	Log/Pole	14		Red Maple	High		>20 feet	Sapling
Sugar Maple	3	Log/Pole/Sap	12		Serviceberry (Juneberry)	Low		10 - 20 feet	Sapling
White Pine	10	Log/Pole/XLog	14	80	Red Oak	Medium		>20 feet	Sapling
					Ironwood	Low		10 - 20 feet	Sapling
					Beech	Low		5 - 10 feet	Sapling
					Striped Maple	Low		10 - 20 feet	Sapling
<b>19</b>	42210 - Natural Red Pine	Sawtimber Well	50.8	83	111-140	N/A		All but a few areas west/south of non-forested Stand 22 (U0) had deciduous removed in '87. Appears oak was harvested too. Areas near Std.22 still have a few mature or snagged out aspen, some canopy RO too. Even-aged in those brief areas, remainder/majority of stand is 2-aged. Some dense pockets with High/Full aspen saps (some small poles emerging). RM saps quite consistent throughout. Canopy RP/WP healthy, nice diameter distribution for both species. ORV Trail bisects stand. Only a few small pockets w/higher BA's. BA swings: 120,130,230,90,90,100,150,80,60,150,120,120 (120avg).	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
Red Oak	3	Log/Pole	12		Paper Birch	Trace	>20 feet		Sapling
Red Pine	70	Log/Pole/XLog	14	83	Beech	Low	5 - 10 feet		Sapling
White Pine	25	Log/Pole/XLog	14		Red Oak	Medium	10 - 20 feet		Sapling
Bigtooth Aspen	2	Log/Pole	12		White Pine	Medium	10 - 20 feet		Sapling
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					Ironwood	Low	10 - 20 feet		Sapling
					Red Maple	High	>20 feet		Sapling
					Sugar Maple	Low	10 - 20 feet		Sapling
					Red Pine	Low	10 - 20 feet		Sapling
<b>20</b>	42210 - Natural Red Pine	Sawtimber Well	149.7	81	81-110	N/A	Harvested under contract 'Whimpering Pines' (54-030-08-01), completed 1/03/2012. Cut marked RP, left WP/RO and any BF/Spruce/NWC. Can-closure can be highly variable, especially if an area(s) previously held a large component of RM/Aspen. Low-end of 75-100% seemed about average. Healthy/natural RP/WP stems throughout, though did observe a small pocket of bark-beetle mortality near center of stand, just north of ORV trail. Good diameter distribution across remaining pine stems. Sub-can density highly variable, some areas with High/Full BTA/RM saps (averaged out to ~medium). Small inclusion dominated by aspen/maple saps sandwiched between Stands 21/26. BA swings= 150,100,70,80,100,90,110,70 (96avg)		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	75	Log/Pole/XLog	14	81	Sugar Maple	Low		Variable	Sapling
Hemlock	1	Pole/Log	8		Hemlock	Trace		10 - 20 feet	Sapling
White Pine	18	Log/Pole/XLog	14		Quaking Aspen	Low		10 - 20 feet	Sapling
Red Oak	6	Log/Pole/XLog	14		Red Pine	Medium		10 - 20 feet	Sapling
					White Pine	Medium		10 - 20 feet	Sapling
					Serviceberry (Juneberry)	Low		10 - 20 feet	Sapling
					Red Maple	Medium		10 - 20 feet	Sapling
					Beech	Low		5 - 10 feet	Sapling
					Bigtooth Aspen	Medium		10 - 20 feet	Sapling
					Juniper	Low		< 5 feet	Tall Shrub
					Red Oak	Medium		10 - 20 feet	Sapling
					Balsam Fir	Low		Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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21	710 - Sand, Soil	Nonstocked	6.6		Unspecified	No	This stand has a history of being excavated for minerals. Also, a mineral trespass occurred here in 2017 (see draft notes, data pulled from LOTS on 3/7/23).
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22	3302 - Low Density Conifer Trees	Nonstocked	1.2		Unspecified	No	<p>Interesting area. A low/bowl like depression that likely holds water at times. The west 1/3, east 1/3 and perimeter are dense with red pine saplings. Center 1/3 did have a moderate stocking of red pine saps, those are/were dead during visit. Appears to be the result of high-water level. A few scattered red maple sap/poles. Some larger WP that are now expired/snagged out too. Debated whether to call forested, could call an R2 (R3 on west/east ends).</p>				
								Sub-Canopy Species	Density	Avg. Height	Size
								Red Pine	High	>20 feet	Sapling

23	6239 - Mixed Emergent Wetland	Nonstocked	2.3		Unspecified	No	Low ground with a mixture of forested and non-forested.
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Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	Tall Shrub

24	3103 - Rubus-Fern	Nonstocked	45.6	0	Unspecified	4211 - Planted Red Pine	Harvested in May 2019 under contract 54-006-15 Rigmarole Red Pine Mix. FTP# C54-1159. Mastication complete in September of 2021 under contract with Wildlife and Wetlands Solutions. Retention island is composed of the parent stand; 99 year old Red Pine. Stand previously had a significant deciduous component throughout resulting in extensive efforts for planted red pine. Seasonal drainage from Stands 23/25 flows NE to south end of retention island (Std46), then flows north down forest rd. This may complicate planting efforts.
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25	6112 - Lowland Aspen	Poletimber Well	6.7	48	51-80	N/A	West 1/2 has a narrow upland corridor with wet/low ground surrounding the upland (around perimeter). The upland portion widens out a bit more in the East 1/2, yet low ground still surrounds it. Average diameters generally smaller pole sized. Conifer (mostly BF) component increases on east end.
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	8	Pole/Log	9	
White Pine	5	Log/Pole	12	
Quaking Aspen	38	Pole/Log	8	48
Red Maple	32	Pole/Sap/Log	7	
Balsam Fir	10	Pole/Sapling	7	
Red Oak	3	Pole/Log	9	
Sugar Maple	1	Pole/Sapling	6	
Red Pine	3	Log/Pole	11	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	>20 feet	Sapling
Balsam Fir	Medium	Variable	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Pine	Low	Variable	Sapling

26	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	20.5	85	81-110	N/A	Somewhat of an oddball stand, both how it's delineated and species/size classes present. I split the odd shaped N1/2 out from Stds18/56. Majority of the that area holds older/larger mix of log/pole RM, BTA, BE and some HM/WP/RO. This area appears to of been left unharvested when surrounding stands were cut in the 70's. Some poles sizes up there too. 'Bulge' in south toggles between a mixture of log/pole and pole/log sized hardwood, aspen and oak. Most hard maple and oak are large sap/small pole size in the 'anchor' area. Southern most portion of stand holds some younger aspen saps/poles, larger RP and then a few log BTA. Quite consistent oak saps/poles of nice form in north/then south portion of stand. Fewer examples in center corridor against PVT. Maple/Hardwood species appear a bit offsite/are of poorer form/quality (a few decent hard maple stems present). BA swings= 110,100,100,100,90,100 (100avg).
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Canopy Species	% Cover	Size Class	DBH	Age
Beech	5	Log/Pole	15	
Red Oak	8	Pole/Sap/Log	9	
Bigtooth Aspen	24	Log/XLog/Pole	16	
White Pine	3	Log/Pole/XLog	12	
Red Pine	3	Log/XLog/Pole	16	
Sugar Maple	18	Pole/Log/Sap	8	
Red Maple	38	Log/Pole	12	85
Hemlock	1	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Medium	Variable	Sapling
Bigtooth Aspen	Low	>20 feet	Sapling
Beech	Medium	Variable	Sapling
White Pine	Low	10 - 20 feet	Sapling
Sugar Maple	Low	>20 feet	Sapling
Red Maple	Medium	>20 feet	Sapling
Paper Birch	Low	>20 feet	Pole
Red Oak	Medium	>20 feet	Sapling





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**27** 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 7.0 62 51-80 N/A

Some larger deciduous stems (log) along southern boundary then average diameters decrease as you move north into the stand. Balsam fir (sap/pole, pole/sap) component quickly escalates in many areas but becomes more dominant in north. Healthy component of birch snags, the minimal amount of beech has started to snag-out too. Narrow, forested ROW is essentially an A6 with some pine, fir and oak.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	42	Pole/Log	9	62
Paper Birch	8	Pole/Log	8	
White Pine	2	Log/Pole	14	
Balsam Fir	38	Pole/Sapling	5	
Bigtooth Aspen	6	Pole/Log/Sap	8	
Red Oak	2	Pole/Sap/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	10 - 20 feet	Sapling
Balsam Fir	High	10 - 20 feet	Sapling
Striped Maple	Low	5 - 10 feet	Tall Shrub
Beech	Low	Variable	Sapling

**28** 4199 - Other Mixed Upland Deciduous Sapling Well 49.0 5 Immature N/A

Sale Name: Cy Young HD Aspen, Sale Number: 54-008-15-01, Purchaser: Tulgetska & Sons, Preparer: 8/15 by JSP, Administrator: Ryan Zimmerman, Payment Unit: 1, Harvest Completion Date: 2018. Stand appeared to be in the early stages of successfully regenerating. At time of survey, it was a nearly equal mix of aspen (BTA) or red maple regen. Though mixed throughout, some areas were stronger to RM, others BTA. Minor amounts of remaining species mixing throughout. Oak regen could be present but I didn't come across where I traveled. Rx left pine and required marking some deciduous species to become future snag material. Lighter regen in east where the landing was, can-closure in remainder of stand ranged 75-100%.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	3	Log/Pole/Sap	14	82
Balsam Fir	5	Sapling	2	
Red Pine	2	Log/Pole/Sap	15	
Sugar Maple	3	Sapling	1	
Quaking Aspen	4	Sapling	1	
Paper Birch	2	Sapling	1	
Ironwood	3	Sapling	1	
Beech	6	Sapling	1	
Red Maple	35	Sapling	1	5
Hemlock	1	Log/Pole/Sap	12	
Bigtooth Aspen	35	Sapling	1	5
Jack Pine	1	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub

**29** 4133 - Aspen, Mixed Pine Sapling Well 69.0 28 1-50 N/A

Apparently cut in '95ish. Left oak, RP, and WP. Oak is obviously older and consistent throughout. Appears to be a mix of hybrid oak and RO that's growing on drier/sandy soils. Most/majority of RP is younger, consistently sap/pole or pole/sap sizes. Guessing younger saps were protected well during harvest, then another age class seeded in too. Some log RP present but not many. WP mainly L/P w/saps here/there. Some RO/RM saps heavily browsed, hanging out around ~5ft tall. Some aspen poles emerging. Nice mix of aspen and pine.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	5	Log/Pole/Sap	14	72
Black Cherry	3	Sapling/Pole	3	
Red Pine	18	Pole/Sap/Log	5	
White Pine	8	Log/Pole/Sap	12	
Quaking Aspen	5	Sapling/Pole	3	
Black/Red (Hybrid) Oak	3	Log/Pole/Sap	14	
Red Maple	8	Sapling/Pole	3	
Bigtooth Aspen	50	Sapling/Pole	4	28

Sub-Canopy Species	Density	Avg. Height	Size
Juniper	Low	< 5 feet	Tall Shrub
Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
Jack Pine	Low	>20 feet	Pole
Beech	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																										
30	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	21.7	65	81-110	N/A	Broad range of size classes, quite inconsistent, could easily call dominant size class pole or log. Obvious some of the oak/pine (and some aspen) were left when last cut. Most RP is xlog, all size classes of RO/WP present (observed at least one legacy RO too). Aspen poles a bit more prevalent overall, clumps of and individual logs throughout as were some sap sized BTA. Aspen logs somewhat more prominent in perimeter locations. Average DBH seemed to increase somewhat as you moved east through stand. A few ages floating around. Areas in south (against A3) had standing water, seasonally related. Trace BW (pole). BA swings= 50,130,110,50,90,110 (90avg).																																																																																										
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31	310 - Herbaceous Openland	Nonstocked	0.9		Unspecified	No	Small opening. Some mature trees were left around this opening to provide 'perching' locations for birds/raptors. Surrounding regeneration will likely encroach upon some of opening as stems continue to mature.																																																																																										
32	4130 - Aspen	Sapling Well	94.0	5	Immature	N/A	This stand (32) contained PU's 1, 2, and a portion of payment unit #3 of sale 'Muttering Expletives Aspen'. Though early in its regeneration cycle, aspen and red maple have responded well/tend to dominate. Red oak sprouts are present but have been the recipient of repeated deer browse. Few oak have (yet) grown above browse height(s). A decent/fairly consistent layer of white pine seedlings were observed below deciduous (most less than 3ft tall). Minor seasonal low ground in some perimeter locations.																																																																																										
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<b>34</b>	4133 - Aspen, Mixed Pine	Sapling Well	45.1	12	51-80	N/A	<p>Could definitely get away with calling this an MC7/MC8 stand. Regardless, seems to be regenerating well, primarily deciduous but conifer regen is consistent. Scattered small pole size aspen/RM that escaped being harvested. Variable BA's based on the amount of 'no-cut' species in any given location. Trace hemlock, log. Ran out of room in canopy, so put BF, BE and QA in the 'sub-can' section.</p>																																																									
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<b>35</b>	310 - Herbaceous Openland	Nonstocked	0.9		Unspecified	No	<p>A formal opening prior to the surrounding timber harvest (Muttering Expletives Aspen). Then used as the landing location for that sale. Aspen saps have since reduced the amount of 'non-forested' area that was present prior to the harvest. Some slash/harvest debris still present.</p>																																																									
<b>36</b>	6112 - Lowland Aspen	Sapling Well	19.7	5	Immature	N/A	<p>Stand harvested in 2017/2018 under contract 54-007-15, 'Muttering Expletives Aspen'. Northern and western locations contain lowland ground. This stand is now a combination of what was formally Stands 36 (P8) and 40 (A9).</p>																																																									
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<b>37</b>	42210 - Natural Red Pine	Sawtimber Medium	24.5	77	81-110	N/A	<p>Two-polygons, both w/same Rx history (see draft notes). Southern poly doesn't have as much vegetative regen. North poly generally dense w/decid regen. Variable can-closure as a result of removing most deciduous plus 'cut' marked trees. Teeters from high-end of 50-75% to low-end 75-100% can-closure. Higher stocking in western areas of north poly (R9). Lowland influence along Std.39. Stand essentially 2-aged (except south poly). An untreated portion of southern poly was split and merged into Std.2, Comp 168.</p>																																																									
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<b>38</b>	6229 - Mixed lowland shrub	Nonstocked	1.7		Unspecified	No	<p>Lowland mixture of forested and non-forested. Some larger canopy QA/RM, then conifer/deciduous saps in sub-can. Lowland shrub types throughout. Likely seasonally saturated then dry at times.</p>																																																									
<b>39</b>	623 - Emergent Wetland	Nonstocked	12.5		Unspecified	No	<p>Braided water courses move through this lowland non-forested stand, flow east. Quite grassy, frozen over and covered with snow during observation. Conifer and deciduous along perimeter. A few interior conifers in the narrow eastern portion.</p>																																																									



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<b>40</b>	4311 - Pine, Aspen Mix	Sawtimber Medium	4.0	93	51-80	N/A	Coy'13: Less of a canopy oak component within this stand with taller sapling pine compared to similar oak stand to the north. Aspen is ok but primarily pulpwood. Good quality RP. JSP'23: This stand (40) is serving as Long-Term Retention for sale 'Rigamarole Red Pine Mix', 54-006-15-01. Representation of its former parent stand, Stand 8. Above canopy/sub-can is Coy's from 2013.																																																																																							
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<b>41</b>	623 - Emergent Wetland	Nonstocked	4.6		Unspecified	No	Perimeter locations are populated with conifer. Interior and core locations generally grassy and/or lowland shrubby.																																																																																							
<b>42</b>	4130 - Aspen	Poletimber Well	38.5	48	111-140	N/A	Generally aspen dominant with more pine present in perimeter locations. Aspen DBH's decrease somewhat where pine/conifer is more prolific (mostly in north). Some pine larger/likely left when last harvested. Trace JP (log/pole) near Stand 45 (U0). BA swings= 140,240,70,80,90,160 (130avg).																																																																																							
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<b>43</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	5.1	88	81-110	N/A	Coy'13: -appears have not been cut with surrounding stands and is very species rich -birch will be gone in 10-20 yrs, weak crowns JSP'23: Agree w/Darrick, appears to have some older stems/clumps of larger DBH aspen. Red maple is still generally pole sized, as are a decent percentage of remaining stems. South 1/2 holds more pine/conifer.																																																																																							
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Red Maple	Medium	10 - 20 feet	Sapling																																																																																											
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White Pine	Medium	10 - 20 feet	Sapling																																																																																											
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Red Pine	Low	10 - 20 feet	Sapling																																																																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
<b>44</b>	42290 - Natural Mixed Pine	Sawtimber Well	14.3	77	81-110	N/A	Stand is a mix of upland w/seasonal lowland. Surrounding lowland stands drain through portions of this stand and/or interface on most boundary locations. Most obvious drainage is in center, moves water west to east, from Std.39 to Std.47. Small pocket of prominent R9 at north end, remainder of stand is a mixture of conifer w/decid. MI Holly high/full in the seasonally low areas. Brief inclusion of A9 in N.E.. Inclusion of E6 in S.W. too (~1ac). Trace BlkSprc (P/S) on east bound. BA swings= 130,140,210,170,110,120,60 (134avg)				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Jack Pine		4	Log/Pole	10		Balsam Fir		Medium	Variable	Sapling	
Red Oak		2	Log/Pole/XLog	14		Black Spruce		Low	Variable	Sapling	
Bigtooth Aspen		4	Log/Pole/XLog	14		Red Pine		Low	Variable	Sapling	
White Pine		40	Log/Pole/XLog	15	77	Beech		Low	5 - 10 feet	Sapling	
Red Pine		34	Log/Pole/XLog	14	77	Paper Birch		Low	>20 feet	Sapling	
Red Maple		10	Pole/Log	8		White Pine		Medium	Variable	Sapling	
Quaking Aspen		4	Log/Pole	10		Michigan Holly		Medium	5 - 10 feet	Tall Shrub	
Paper Birch		2	Pole	8		Red Maple		Medium	10 - 20 feet	Sapling	
						White Spruce		Low	5 - 10 feet	Sapling	
						Red Oak		Low	10 - 20 feet	Sapling	
						Tag Alder		Medium	5 - 10 feet	Tall Shrub	
<b>45</b>	3105 - Mixed Upland Herbaceous	Nonstocked	1.4		Unspecified	No	Medium sap/pole BTA and RM near perimeter. Low sap/pole JP, RP, WP along perimeter. A few scattered juniper. Patch of black/red raspberry in center of opening.				
<b>46</b>	42210 - Natural Red Pine	Sawtimber Well	6.5	99	51-80	N/A	Coy'13: Some regen is partially suppressed underneath denser pockets of RP. Typically would have liked to see more rp and wp cut.JSP'23: This stand (46) is serving as L.T.R for its former parent stand (24). The large island was designated/digitized by Coy in '13 to serve as retention. The smaller, boundary excluded polygon contains seasonally wet ground and was excluded (by me, JSP) during sale prep in '15. Above data is canopy/sub-can data is Coy's from '13.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		20	Pole/Log	8		Bigtooth Aspen		Full	5 - 10 feet	Sapling	
Red Pine		60	Log/XLog	15	99	White Pine		Low	Variable	Sapling	
Red Oak		20	Log/Pole	11		Red Maple		Medium	5 - 10 feet	Sapling	
						Sugar Maple		Low	5 - 10 feet	Sapling	
						Beech		Low	5 - 10 feet	Sapling	
						Red Oak		Low	Variable	Sapling	
<b>47</b>	6229 - Mixed lowland shrub	Nonstocked	33.2		Unspecified	No	A little bit of everything mixed into this primarily non-forested lowland complex. Observed tree species include white pine, spruce, cedar, tamarack, fir, aspen/bam and red maple. Numerous size classes of the tree species mentioned above. Typical lowland shrub types present, includes alder, holly, willow brush and ninebark. Inclusions of 'forested' along northern boundary that weren't cut during most recent harvests.				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>48</b>	42210 - Natural Red Pine	Sawtimber Well	33.7	83	81-110	N/A	Coy'13: Stand split in density- 130-140ba where low in aspen and 40-60ba where high to aspen.JSP'23: Overall can-closure averages about ~75%. Lower where more deciduous was removed in '12. The north and south/southwest areas have far less can-closure. Essentially 2-aged, very dense deciduous regen, some interior locations less dense. BA swings= 170,80,100,60,90 (100avg).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	2	Log/Pole	14		Red Maple	High		10 - 20 feet	Sapling
White Pine	28	Log/Pole/XLog	14		Bigtooth Aspen	High		10 - 20 feet	Sapling
Red Pine	70	Log/Pole/XLog	14	83	Beech	Low		5 - 10 feet	Sapling
					Balsam Fir	Low		Variable	Sapling
					Red Oak	Low		5 - 10 feet	Sapling
					Quaking Aspen	Medium		10 - 20 feet	Sapling
					Ironwood	Low		Variable	Sapling
					White Pine	Low		5 - 10 feet	Sapling
<b>49</b>	4130 - Aspen	Poletimber Well	45.0	49	111-140	N/A		Harvested ~'74ish (I split Stands 50/65 out of this stand). Fairly consistent pole sizes, logs not uncommon. A few areas a bit more A9. QA more dominant in E1/2 and along southern boundary. Most oak and some pine are older, were left when last cut. Infrequent oak has a greater presence along Std48 (R9) and in West/SW, most log/xlog and were healthy. The minimal pine located in similar locations, then a few scattered here/there. Boundary with Stand 50 appears to be the beginning of a series of vernal pool complexes influenced by seasonal snow melt and adjacent lowland types (see Stand 50 comments). BA swings: 160,50,160,100,110,90,100,90,150 (112avg)	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Red Oak	3	Log/XLog/Pole	16	86	Beech	Low	Variable		Sapling
Sugar Maple	2	Pole/Log	8		Paper Birch	Low	>20 feet		Sapling
Red Maple	15	Pole/Sap/Log	7		Sugar Maple	Low	>20 feet		Sapling
Bigtooth Aspen	44	Pole/Log	9	49	Red Pine	Low	Variable		Sapling
White Pine	3	Log/Pole/XLog	14		Balsam Fir	Medium	Variable		Sapling
Quaking Aspen	24	Pole/Log	8	49	Serviceberry (Juneberry)	Low	10 - 20 feet		Sapling
Paper Birch	3	Pole/Sapling	7		White Pine	Low	Variable		Sapling
Balsam Fir	4	Pole/Sapling	6		Black Ash	Trace	5 - 10 feet		Sapling
Red Pine	2	Log/XLog	16		Red Maple	High	>20 feet		Sapling
<b>50</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	11.2	49	111-140	N/A	Harvested ~'74ish (split this out of Stand 49). Inventoried Stands 49/50/65 as one stand in Jan '23, wanted to re-visit in spring to finalize Rx ideas/see snow-off conditions (early May '23). Could tell in winter this area likely held seasonal snow melt water/overflow from adjacent lowland types, it does. Pit and mounds abound, MANY of these swallow depressions were holding water during May visit (only had ~1.5-2ft snow-pack up here in '23 too). Difficult to say if each depression is a valid vernal pool but does look like a series of V.P. complexes. North boundary is result of GPS'ing continuous depressions holding water (this stand) vs. dry with few depressions on the other side (Std49). Covetype is somewhat different than Std.50. More lowland canopy types like QA, RM, BF, Spruce, NWC, sub-can types too (dogwood, tag, blkash). Southern boundary descends into true lowland in most areas.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	35	Pole/Log	8	49	White Pine	Low		Variable	Sapling
Paper Birch	2	Pole/Sapling	7		Red Oak	Trace		10 - 20 feet	Sapling
Red Maple	20	Pole/Log	8		Black Ash	Medium		Variable	Sapling
White Pine	3	Log/Pole/XLog	14		Beech	Low		Variable	Sapling
Northern White Cedar	2	Pole/Log	8		Paper Birch	Low		>20 feet	Sapling
Balsam Fir	10	Pole/Sapling	6		White Spruce	Low		Variable	Sapling
Red Oak	1	Log/XLog/Pole	16	86	Balsam Fir	Medium		Variable	Sapling
White Spruce	3	Pole/Sapling	7		Dogwood (spp.)	Low		5 - 10 feet	Tall Shrub
Bigtooth Aspen	24	Pole/Log	9	49	Red Maple	High		>20 feet	Sapling
					Tag Alder	Low	5 - 10 feet	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
51	6229 - Mixed lowland shrub	Nonstocked	12.7		Unspecified	No	A mixture of lowland shrub and clumps low-density deciduous/conifer trees. Low shrub is mainly tag alder, then some MI Holly, willow brush, ninebark and dogwood. Scattered mixed islands of pole/sap/log with NWC, BF, Spruce, QA, RM and BlkAsh. Narrow corridors and locations closer to perimeter held more tree species.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
52	6120 - Lowland Cedar	Poletimber Well	29.5	119	111-140	N/A	

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	62	Pole/Log	8	119	Tag Alder	Low	5 - 10 feet	Tall Shrub
Hemlock	4	Log/Pole	11		Red Maple	Low	Variable	Sapling
Yellow Birch	3	Pole/Log	9		Balsam Fir	Medium	Variable	Sapling
Red Maple	6	Log/Pole	12		Northern White Cedar	Low	Variable	Sapling
Quaking Aspen	20	Log/Pole/XLog	14		Black Ash	Medium	Variable	Sapling
Paper Birch	5	Pole/Log	9		Green Ash	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
53	6139 - Mixed Lowland Forest	Poletimber Well	10.4	83	51-80	N/A	Numerous seasonal watercourses moving through this stand. Only slight change in elevation dictate the path water travels. Portions likely dry out yet still occupied with silty/delicate soils. Areas that hold the most water heavy to alder and other lowland shrub types. Northern transitional area held more deciduous (some scattered xlog stems too). Conifer component quickly increases as you travel into southern locations.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	4	Log/Pole/XLog	14		Balsam Fir	Medium	Variable	Sapling
Balsam Fir	14	Pole/Sapling	7		Green Ash	Low	Variable	Sapling
Northern White Cedar	10	Pole/Log	9		Black Ash	Medium	Variable	Sapling
Bigtooth Aspen	5	Log/Pole	11		Black Spruce	Medium	Variable	Sapling
Red Maple	25	Pole/Log/Sap	8	83	Red Maple	High	10 - 20 feet	Sapling
Hemlock	4	Log/Pole	11		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Paper Birch	10	Pole/Log	8					
Yellow Birch	5	Pole/Sap/Log	7					
Quaking Aspen	10	Pole/Log	9					
White Spruce	7	Log/Pole	11					
Black Spruce	6	Pole/Sapling	7					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
54	310 - Herbaceous Openland	Nonstocked	0.5	0	Unspecified	No	Prior to being used as a landing location for harvest in Stand 8 (Rigamarole Red Pine), this area was already grassy/open/wider portion along Kasprzak Rd. Being used as a landing has assisted in keeping this a non-forested location.

Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	Low	>20 feet	Log
Red Maple	Low	>20 feet	Pole

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
55	4130 - Aspen	Poletimber Well	3.8	52	51-80	N/A	Island retention representing what Stand 33 ~was prior to harvest. Island was focused around an area of with a larger component of canopy and sub-canopy pine (both red/white).

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	3	Pole/Sapling	6		Red Maple	High	>20 feet	Sapling
Bigtooth Aspen	74	Pole/Sapling	7	52	Beech	Low	Variable	Sapling
Quaking Aspen	5	Pole/Sapling	7		Sugar Maple	Medium	>20 feet	Sapling
White Pine	3	Log/Pole	15		Ironwood	Low	Variable	Sapling
Sugar Maple	10	Pole/Sapling	5		White Pine	Medium	10 - 20 feet	Sapling
Red Maple	5	Pole/Sapling	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>56</b>	4130 - Aspen	Poletimber Well	35.8	45	51-80	N/A	Though generally medium/smaller pole size, aspen is the consistently merch size species in this stand. An area of higher site quality in the NW holds some larger BTA stems (~5ac). RM is moving or just moved into smaller merch size(s), still a lot of saps though. RO sap and small poles are quite consistent (though not everywhere) and of nice/cleaner form. Most RO averaged ~5-6"ish DBH. RO saps 'high' in areas. Minor component of larger WP/RP and a few RO that went uncut during previous harvest. Trace pole size BF/WSprc. BA swings= 110,90,80,80,100,140,110,90 (100BA avg).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	3	Log/Pole/XLog	14		White Pine	Low		10 - 20 feet	Sapling
Red Pine	2	Log/Pole	14		Hemlock	Trace		>20 feet	Sapling
Sugar Maple	3	Pole/Sapling	6		Sugar Maple	Medium		>20 feet	Sapling
Red Maple	15	Pole/Sapling	6		Serviceberry (Juneberry)	Low		10 - 20 feet	Sapling
Red Oak	5	Pole/Sap/Log	6		Red Maple	High		>20 feet	Sapling
Quaking Aspen	4	Pole	7		Juniper	Low		< 5 feet	Tall Shrub
Bigtooth Aspen	68	Pole	7	45	Beech	Low		5 - 10 feet	Sapling
					Red Oak	Medium		>20 feet	Sapling
					Balsam Fir	Low		Variable	Sapling
					Ironwood	Low		10 - 20 feet	Sapling
<b>57</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	2.5	83	81-110	N/A		Island retention for the timber sale (Cy Young Aspen) that occurred within Stand 28. Islands were placed around pockets heavier to larger maple, beech, aspen and some paper birch/pine.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
Sugar Maple	15	Pole/Log	8		Red Oak	Low	Variable		Sapling
White Pine	3	Log	14		Striped Maple	Low	5 - 10 feet		Tall Shrub
Red Maple	30	Pole/Log	8	83	Balsam Fir	Medium	Variable		Sapling
Red Pine	2	Log	15		Beech	Medium	Variable		Sapling
Beech	5	Pole/Log	8		Sugar Maple	Low	Variable		Sapling
Bigtooth Aspen	30	Log/Pole	12		Red Maple	Medium	Variable		Sapling
Paper Birch	15	Pole/Log	8		Serviceberry (Juneberry)	Low	5 - 10 feet		Tall Shrub
<b>58</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	22.0	6	1-50	N/A	<p>JSP, '23: Cut in 2017, PU3, "Ms. Keytoe Aspen". All RP, WP, Hem left. Marked ~10BA of oak to leave (per Rx). Though very prominent/heavy IW regen throughout, stand is regenerating a fairly decent mix of other species. Many RO, HM and RM sprouts have made it above browse height. The ones that didn't are browsed right down to the ground... More aspen regen in north, south is 'Mixed-Decid' (almost no aspen). Medium to High raspberry in many areas, beech brush/saps common (most &lt;5ft). Decent WP seedling layer present. Residual stems appeared healthy. Stand offers structural diversity, variable shade/light regimes.</p> <p>Regen survey in 2022, 5 years post-harvest (Collin Whitsett).                      - Completed walkthrough regeneration survey on 7/6/2022.                      - The stand has regenerated to a high stocking dominated by ironwood. Note that most of the aspen is already above the ironwood                      - Acceptable species composition was not achieved, but the coverage levels were. The stand regenerated to a 'other mixed upland deciduous cover type. It is recommended that the stand is release sprayed to remove the ironwood.</p> <p>Coy '13: Definitely can grow oak here. RM and beech heavier to west and sw. Average to good quality oak. N hardwood pretty poor quality and not many logs, mostly spindly and partially suppressed by oak. Smaller diameter timber with less density to N, W, and SW. Appears that everything but oak was cut for this area around 1966.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	6	Sapling	1		Striped Maple	Low		< 5 feet	Sapling
White Pine	4	Pole/Log/Sap	7		Beech	Medium		< 5 feet	Sapling
Ironwood	40	Sapling	1	6	Blackberry/Raspberry	High		< 5 feet	Tall Shrub
Bigtooth Aspen	20	Sapling	1		White Pine	Medium		< 5 feet	Seeding
Red Pine	2	Log/XLog/Pole	15						
Red Oak	4	Log/XLog	14	94					
Red Oak	10	Sapling	1						
Red Maple	14	Sapling	1						





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																							
<b>59</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	8.2	48	51-80	N/A	Multi-part polygon representing long-term retention created for Stand 32 following harvest 'Muttering Expletives Aspen', 540071501.																																																																																							
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<b>60</b>	500 - Water	Nonstocked	1.0		Unspecified	No	This stand has a history of being excavated for minerals. Also, a mineral trespass occurred here in 2017 (see draft notes, data pulled from LOTS on 3/7/23). Amount and area occupied by water likely varies upon season and precip received.																																																																																							
<b>61</b>	310 - Herbaceous Openland	Nonstocked	0.2	0	Unspecified	No	Grassy open area that sees a lot of vehicular traffic, from both private and state land.																																																																																							
<b>62</b>	310 - Herbaceous Openland	Nonstocked	0.8	0	Unspecified	No	Used as a landing location during timber sale 'Cy Young Aspen'.																																																																																							
<b>63</b>	4130 - Aspen	Poletimber Poor	1.2	48	51-80	N/A	This stand/area has experienced some 'abuse' as a 'gathering location' over the years/decades. Sandy with a modified racetrack around perimeter. Center is the 'gathering' point. Stand is ~50% forested, ~50% sand, sedge and racetrack.																																																																																							
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<b>64</b>	4130 - Aspen	Poletimber Well	15.6	67	51-80	N/A	This stand (Stand 64) was excluded during sale prep in surrounding parent stand, Stand 2. This stand (64) had standing water during day one of prep (in spring '15). Returned a month later to continue redline and obvious wet areas, vernal pools and drainages were still present. Coy noted these conditions in his stand notes and Rx. Parent stand, Stand 2 was harvested under sale 'Ms. Keytoe Aspen', 54-008-15-01. Above canopy/sub-canopy data is Coy's from '13.Coy'13: Originally one stand (stands 2/4) but this stand (2) is older and wetter than stand 4 (was). Most aspen are 60-70ft tall. Parvco site with pockets of lowland intermixed, still mostly upland.																																																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
<b>65</b>	4136 - Aspen, Mixed Conifer	Poletimber Well	7.6	49	111-140	N/A	Harvested ~'74ish (split out of Stand 49). First inventoried/visited snow-on in late Jan '23 when it belonged to Stand 49. Re-visited early May '23. Northern 2/3rds of stand was serving as a seasonal 'sponge' for (seasonal) lowland influence on west. Swallow depressions in northern 2/3rds were holding water in May, had appearance of vernal pools (small complexes). A slight but noticeable downward slope begins north of the Forest Rd (which is the south boundary). Southern 1/3rd holds some larger oak and pine stems (a few BTA too) before bottoming out and graduating into smaller DBH mixture of QA, BF, RM and a few NWC. BA range quite similar to Stand 49, except a bit lower in north due to smaller avg DBH's.					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size		
Balsam Fir		16	Pole/Sapling	6		Red Oak		Low	10 - 20 feet	Sapling		
Paper Birch		3	Pole/Sapling	7		Ironwood		Low	10 - 20 feet	Sapling		
Quaking Aspen		36	Pole/Sap/Log	7	49	Paper Birch		Low	>20 feet	Sapling		
Red Maple		14	Pole/Sap/Log	7		Beech		Low	Variable	Sapling		
White Pine		4	Log/Pole/XLog	14		Balsam Fir		Medium	Variable	Sapling		
Red Pine		4	Log/XLog	16		Serviceberry (Juneberry)		Low	10 - 20 feet	Sapling		
Bigtooth Aspen		14	Pole/Log	9	49	White Pine		Low	Variable	Sapling		
Red Oak		8	Log/XLog/Pole	16	84	Black Ash		Low	5 - 10 feet	Sapling		
Northern White Cedar		1	Pole	8		Red Maple		Medium	>20 feet	Sapling		
						White Spruce		Trace	Variable	Sapling		
						Sugar Maple		Low	>20 feet	Sapling		
						Red Pine		Low	Variable	Sapling		
<b>66</b>	4130 - Aspen	Sawtimber Well	5.4	93	51-80	N/A		Multi-part polygon representing long-term retention created for Stands 36 (P8) and 40 (A9) following harvest 'Muttering Expletives Aspen', 540071501. Site condition 5E-14 captures representation of (formally) Std.36. Condition 5E-13 captures representation of (formally) Std.40.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size	
Red Pine		10	Log/Pole	15		White Pine			Low	Variable	Sapling	
White Pine		2	Log	14		Red Maple			Medium	Variable	Sapling	
Quaking Aspen		20	Log/Pole/XLog	14		Red Pine			Low	Variable	Sapling	
Red Maple		10	Pole/Log	8		Balsam Fir			Medium	Variable	Sapling	
Bigtooth Aspen		58	Log/Pole/XLog	12	93							
<b>67</b>	122 - Road/Parking Lot	Nonstocked	1.9	0	Unspecified		Gravel road and cleared powerline corridor. Provides access/power to Lofgren gravel pit. Gated entrance to (I believe MSP) radio tower present too. A row of aspen/some conifer in-between road and corridor.					
Sub-Canopy Species		Density	Avg. Height	Size								
Bigtooth Aspen		Low	>20 feet	Log								
White Pine		Low	>20 feet	Log								
<b>68</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	1.7	80	51-80	N/A	At least two-aged, primarily because of excessively wet conditions and seasonal drainage courses (causing older stems to decline/fall out). Some areas (usually in west) teeter on being lowland shrub covertype w/lower-density deciduous and conifer trees. Areas definitely move water and had sensitive soils. Ash saplings responding to canopy gaps in tip-up/blow-down locations yet unlikely to develop into merch size due to continued attack from EAB. Much heavier conifer presence in north and east. Variable stocking, BA's and DBH's.					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size		
Quaking Aspen		5	Log/Pole	12		Red Osier Dogwood		Low	5 - 10 feet	Tall Shrub		
Balsam Fir		10	Pole/Sapling	5		Tag Alder		High	5 - 10 feet	Tall Shrub		
Black Spruce		15	Pole/Sapling	6		Michigan Holly		Medium	5 - 10 feet	Tall Shrub		
White Pine		2	Log/XLog	15		Yellow Birch		Low	>20 feet	Sapling		
Paper Birch		5	Pole/Sapling	7		Black Ash		High	Variable	Sapling		
Red Maple		8	Pole/Sapling	7								
Hemlock		2	Pole/Log	9								
Northern White Cedar		48	Pole/Sap/Log	7	80							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>69</b>	6122 - Black Spruce	Poletimber Well	5.8	80	81-110	N/A	A series of upland w/low and/or lowland w/up situated within a larger lowland complex (Std.47). Generally dominated by spruce with a host of other species mixing in. Some very large/scattered white pine present. Southern boundary locations held most of the true upland. Remainder varied/protruded into Stand 47 lowland areas.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		2	Log/Pole/XLog	11		Black Spruce		Medium	Variable	Sapling	
White Spruce		6	Pole/Log	9		White Spruce		Low	Variable	Sapling	
White Pine		5	XLog/Log	22		Balsam Fir		Medium	Variable	Sapling	
Bigtooth Aspen		5	Log/Pole	12		White Pine		Low	Variable	Sapling	
Tamarack		6	Pole/Log	8		Red Oak		Low	Variable	Sapling	
Red Maple		6	Pole/Log	8		Tag Alder		Medium	5 - 10 feet	Tall Shrub	
Balsam Fir		3	Pole/Sapling	7		Michigan Holly		Medium	5 - 10 feet	Tall Shrub	
Paper Birch		5	Pole/Log	8		Red Maple		Medium	Variable	Sapling	
Northern White Cedar		2	Pole/Sap/Log	8							
Black Spruce		60	Pole/Sapling	6	80						

<b>70</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	2.2	80	81-110	N/A	At least two-aged, primarily because of excessively wet conditions and seasonal drainage courses (causing older stems to decline/fall out). Some areas (usually in west) teeter on being lowland shrub covertype w/lower-density deciduous and conifer trees. Areas definitely move water and had sensitive soils. Ash saplings responding to canopy gaps in tip-up/blow-down locations yet unlikely to develop into merch size due to continued attack from EAB. Much heavier conifer presence in north and east. Variable stocking, BA's and DBH's.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Ash		6	Sapling	3		Yellow Birch		Low	>20 feet	Sapling	
Balsam Fir		20	Sapling/Pole	4	46	Black Ash		High	Variable	Sapling	
Northern White Cedar		22	Pole/Sap/Log	7	80	Ninebark		Low	5 - 10 feet	Tall Shrub	
Black Spruce		15	Pole/Sapling	5		Michigan Holly		Medium	5 - 10 feet	Tall Shrub	
Quaking Aspen		10	Log/Pole	13	80	Tag Alder		High	5 - 10 feet	Tall Shrub	
Paper Birch		8	Pole/Sapling	7		Red Osier Dogwood		Low	5 - 10 feet	Tall Shrub	
White Pine		2	Log/XLog	15							
Red Maple		15	Sapling/Pole/Log	4	46						