



# Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33087

Entry Year 2023

Acreage: 1,357

County Delta

Management Area: Dead Horse Moraines

**Revision Date:** 2021-06-29

**Stand Examiner:** Dan Racine

**Legal Description:**

T41N R23W Sections 3, 4, 9, and 10

**Identified Planning Goals:**

The major upland cover type within this compartment is aspen. There is a minor amount of acreage in the mixed upland deciduous and upland conifer cover types. The major lowland cover types within this compartment are cedar, tamarack, and lowland deciduous. There is a minor amount of acreage in the lowland conifer and lowland shrub cover types. The management within the upland cover types will focus primarily on the aspen types and aspen types with mixed conifers. The intent of the prescriptions is to regenerate aspen with a mix of conifers, working toward balancing the aspen age class throughout the compartment. The lowland tamarack is prescribed for harvest with the intent of regenerating the tamarack and mixed lowland conifers within these stands. These stands have forest health concerns are over mature and will continue to decline.

**Soil and topography:**

The topography is level with some upland ridges. The major soil series within this compartment are Dawson and Greenwood peats, Kinross, Roscommon, Tawas, and Emmet.

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

This compartment is part of a small block of state land approximately two miles by three miles. The ownership to the north and west is small private holding with some agricultural lands. The south end of the compartment includes a larger block of private industrial forest lands.

**Unique Natural Features:**

None

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

None Known

**Special Management Designations or Considerations:**

None

**Watershed and Fisheries Considerations:**

Compartment 33087: NLMMU – John Bauman: This compartment does not contain any waterbodies.

**Wildlife Habitat Considerations:**

This compartment is within the Deadhorse Moraines Management Area. Half of this compartment is lowland forest comprised of cedar and tamarack. Aspen covers about 29% of the compartment. A 105-acre tamarack stand will be treated this year of entry to address ELB impacts. Retention areas within the stand are identified as providing winter cover for wildlife or highest concentrations of cedar. Much of the cedar throughout the stand is scattered and will be treated this year of entry. A 26-acre aspen stand will be clear cut and provide valuable early successional habitat for wildlife.

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

Compartment 87: Sections 3-4 & 9-10, T41N-R23W, Delta County

No known potential exists for commercial oil & gas production in this part of the state. Two active sand/gravel pits are within two miles of the compartment. The compartment is predominantly wetlands, and potential for sand & gravel and/or limestone mining appears limited. Potential metallic mineral bearing formations beneath the compartment are thought to be too deep to have significant potential for discovery or economic recovery.

**Vehicle Access:**

This compartment has very limited vehicle access. There is a two track road off County Road 519 that provides access to the west side of the compartment. The Wood Tick road to the north will provide winter access for management activities

and ORV access to the east side of the compartment.

**Survey Needs:**

The existing corners should be adequate for management activities proposed.

**Recreational Facilities and Opportunities:**

There are opportunities for hunting, hiking, and dispersed camping.

**Fire Protection:**

This compartment is not high risk for fire. Vehicle access to some portions of the compartment may be limited.

**Additional Compartment Information:**

\* The following reports from the Inventory are attached:

- ◆ Total Acres by Cover Type and Age Class
- ◆ Proposed Treatment Summary
- ◆ Proposed Treatments – No Limiting Factors
- ◆ Proposed Treatments – With Limiting Factors
- ◆ Stand Details (Forested and Nonforested)
- ◆ Dedicated and Proposed Special Conservation Areas

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

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

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

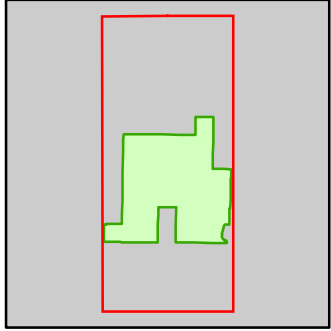
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

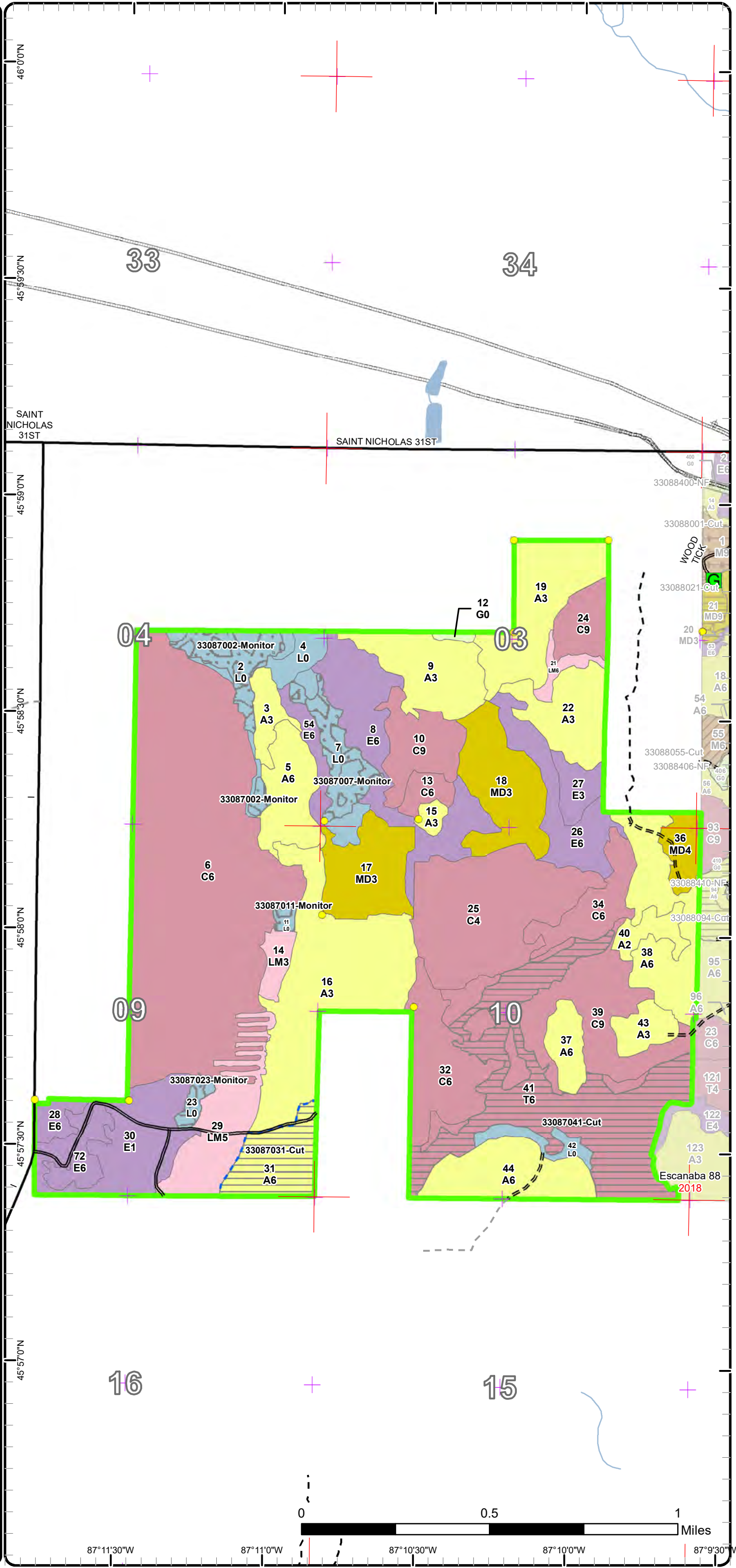
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 87  
 T41N R23W Sec. 03, 04, 09, 10  
 County: Delta  
 Unit: Escanaba  
 Mgmt Area: Dead Horse Moraines  
 YOE: 2023  
 Acres: 1357.1 GIS Calculated  
 Examiner: Dan Racine  
 Map Revised: 7/1/2021  
 Map Phase: Web-Post



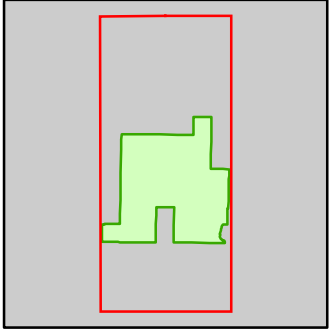
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- Lake/Pond
- Perennial River
- Lakes and Rivers
- G Gate
- Pipeline
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Regeneration Survey
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub



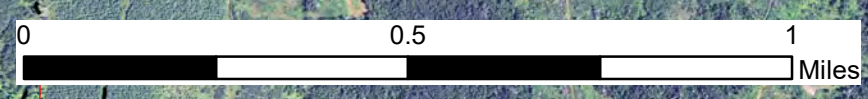
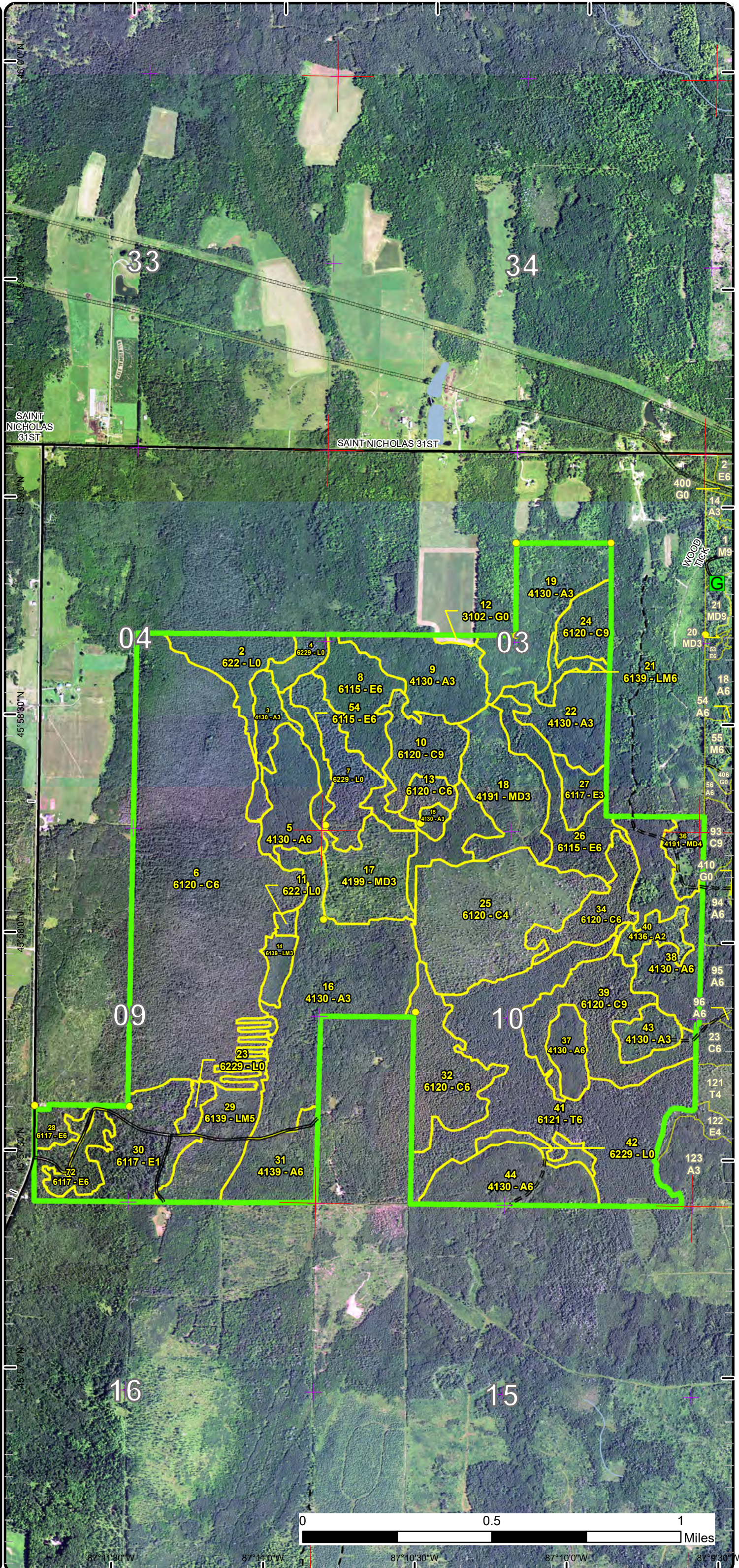
87°11'30"W      87°11'0"W      87°10'30"W      87°10'0"W      87°9'30"W  
 45°57'0"N      45°57'30"N      45°58'0"N      45°58'30"N      45°59'0"N      45°59'30"N      46°0'0"N

# Stand Boundary Map

Compartment: 87  
 T41N R23W Sec. 03, 04, 09, 10  
 County: Delta  
 Unit: Escanaba  
 Mgmt Area: Dead Horse Moraines  
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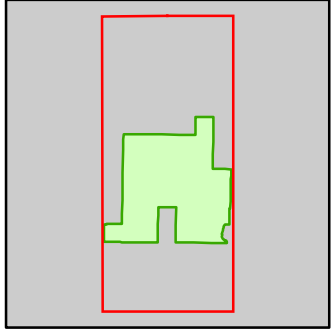
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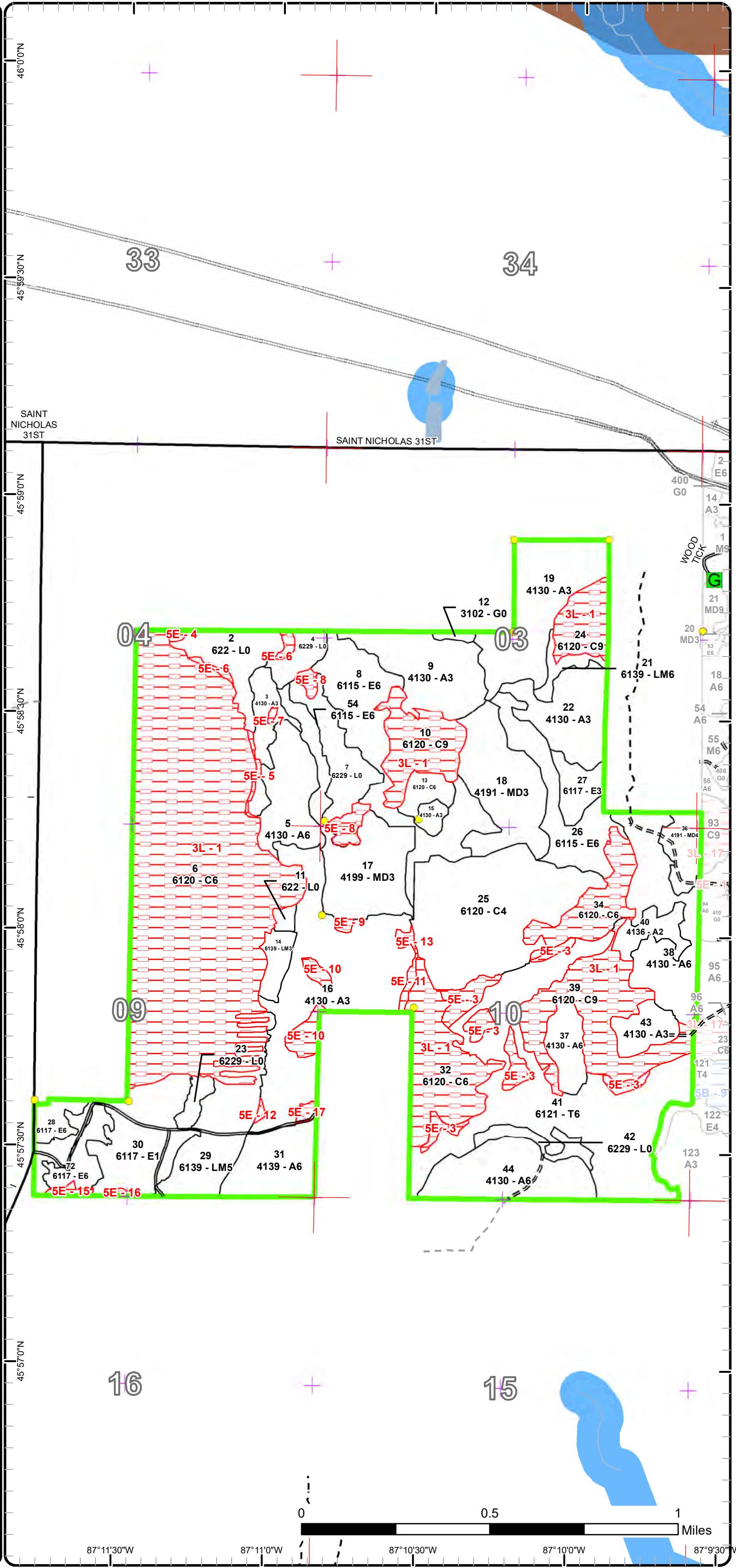
87°11'30"W    87°11'0"W    87°10'30"W    87°10'0"W    87°9'30"W

# Special Conservation Areas

Compartment: 87  
 T41N R23W Sec. 03, 04, 09, 10  
 County: Delta  
 Unit: Escanaba  
 Mgmt Area: Dead Horse Moraines  
 YOE: 2023  
 Acres: 1357.1 GIS Calculated  
 Examiner: Dan Racine  
 Map Revised: 7/1/2021  
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- Miris Corners
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- Counties
- DNR - Secondary Forest Road
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- Private - Dirt / Gravel Road
- Lake/Pond
- Perennial River
- Lakes and Rivers
- G Gate
- Pipeline
- Compartment Boundary
- Unavailable
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- High Priority Trout Stream Buffer
- Deer Winter Range



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	101	61	116	75	0	27	0	0	0	0	0	0	0	0	0	0	0	380
Cedar	0	0	0	0	0	0	0	0	0	78	7	41	351	0	0	0	0	0	477
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Deciduous	0	48	0	10	0	0	77	0	29	0	0	0	0	0	0	0	0	0	164
Lowland Mixed Forest	0	0	0	0	8	0	36	5	0	0	0	0	0	0	0	0	0	0	49
Lowland Shrub	76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76
Mixed Upland Deciduous	0	0	74	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86
Tamarack	0	0	0	0	0	0	0	0	124	0	0	0	0	0	0	0	0	0	124
<b>Total</b>	<b>78</b>	<b>149</b>	<b>135</b>	<b>138</b>	<b>83</b>	<b>0</b>	<b>140</b>	<b>5</b>	<b>153</b>	<b>0</b>	<b>78</b>	<b>7</b>	<b>41</b>	<b>351</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1358</b>



## Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 87

Total Compartment Acres: 1,357

Commercial Harvest - 105  
 Harvests with Site Condition - 27  
 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	27	0	0	0	0	0	0	0	0	27
Tamarack	105	0	0	0	0	0	0	0	0	105
<b>Total</b>	<b>132</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>132</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	132	0	0	0	0	0	49	0	0	181
Next Step	0	0	0	0	0	0	132	0	0	132
<b>Total</b>	<b>132</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>181</b>	<b>0</b>	<b>0</b>	<b>313</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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**Proposed Treatments:**

11	<b>33087011-Monitor</b>	2.3	622 - Lowland Shrub	Nonstocked	0		Monitoring	Natural Regen (Re-Inventory)	6121 - Tamarack	Even-Aged	No
<p><u>Prescription</u> Monitor the regeneration during the next regeneration cycle.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> Tamarack, Black Spruce and mixed lowland conifer species.  <u>Regen:</u>  <u>Other</u> Some seedling in but very poorly stocked at this time.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2031</p>											
23	<b>33087023-Monitor</b>	4.7	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Monitor the regeneration during the 2033 inventory cycle.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> Tamarack, black spruce and lowland mixed forest cover type species.  <u>Regen:</u>  <u>Other</u> Currently only 2 years since the harvest and this stand will require more time to regenerate the black spruce, tamarack and lowland conifer species.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2031</p>											
31	<b>33087031-Cut</b>	26.9	4139 - Aspen, Mixed Deciduous	Poletimber Well	51	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention: Cut all trees that are 3 inches and greater dbh. Place retention of greater than 3% of the stand.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> aspen, mixed conifer and deciduous species.  <u>Regen:</u>  <u>Other</u> Current retention area is placed between stand 16 and this stand to tie the two stands retention together. Determine exact placement during  <u>Comment:</u> timber sale preparation. This stand harvest will aid in distributing the age classes of aspen within this compartment and management area.  <u>Site Condition</u> Long-Term Retention  <u>Proposed Start Date:</u> 10/1 /2022</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
<b>41 33087041-Cut</b>	105.2	6121 - Tamarack	Poletimber Well	78	111-140	Harvest	Clearcut with Retention	6121 - Tamarack	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u> Clearcut with retention. The retention will be in areas of highest cedar volumes which will be on the north and central portion of the stand. These retention areas will include retention of all species and vary in size.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Tamarack, Black Spruce. Any mixed deciduous and coniferous species present on site.</p> <p><u>Other Comment:</u> This stand is in conditional range and has a canopy composition of 25% cedar. Much of the cedar is scattered, and lacking in shelter qualities. The biologist and forester identified retention areas to be excluded from harvest. The remainder of the stand will be treated. Dan - The cord references in comments and retention percentage is valuable, thanks for doing that. This harvest will salvage the tamarack from further ELB. The tamarack throughout this management area has been managed and allowing for age class distribution in the tamarack. This will allow for better prevention against disease outbreaks. Total cords is 6.1 cords to the acre of cedar prior to stand and treatment retention adjustment. Estimate about 500 to 600 total cords of cedar harvested. Total retention percent currently mapped out is 8.5% retention.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

**Approved Treatments:**

<b>2 33087002-Monitor</b>	21.8	622 - Lowland Shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6121 - Tamarack	Two-Aged	No
<p><u>Prescription</u> Monitor the regeneration</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any mix of overstory species. Particularly, tamarack and spruce.</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 /2031</p>										
<b>7 33087007-Monitor</b>	19.8	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6121 - Tamarack	Two-Aged	No
<p><u>Prescription</u> Monitor the regeneration</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Tamarack, and a mix of other overstory species.</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 /2031</p>										

**Total Treatment Acreage Proposed: 180.7**

## Report 4 – Site Conditions

Escanaba Mgt. Unit  
Dan Racine : Examiner

Compartment: 87  
Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	<i>Acres Avail With Condition</i>	Acres Not Available
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### Dominant Site Conditions

3L    5E

Total	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions	3L	5E
379	366	0	13	Aspen		13
477	85	0	392	Cedar	392	
2	2	0	0	Herbaceous Openland		
165	162	0	2	Lowland Deciduous		2
49	49	0	0	Lowland Mixed Forest		
76	65	0	11	Lowland Shrub		11
85	85	0	0	Mixed Upland Deciduous		0
124	105	0	18	Tamarack		18
1,357	920		437	Total Forested Acres	392	45
	68%		32%	Relative Percent		

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

Site No.	Dominant Site Cond	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable		<b>3L: Other wildlife concerns</b>	392	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>								
3	Unavailable		<b>5E: Long-Term Retention</b>	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention of areas with higher cedar concentrations.								
4	Unavailable		<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>								
5	Unavailable		<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>								

**Report 4 – Site Conditions**

Escanaba Mgt. Unit  
Dan Racine : Examiner

Compartment: 87  
Year of Entry: 2023

6	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Escanaba Mgt. Unit  
Dan Racine : Examiner

Compartment: 87  
Year of Entry: 2023

15	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention. This may be modified or changed during timber sale preparation.							

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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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2	622 - Lowland Shrub	Nonstocked	26.7	0	Unspecified	6121 - Tamarack	This stand was harvested under the Sitting Bear sale. Monitor treatment to continue to the next treatment period to allow time for lowland conifer species to regenerate.
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3	4130 - Aspen	Sapling Well	10.4	2	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	70	Sapling	1	2
Balsam Fir	10	Sapling	2	
Balsam Poplar	10	Sapling	1	
Red Maple	10	Sapling	1	

4	6229 - Mixed lowland shrub	Nonstocked	8.3			No	There is some scattered Tamarack here of 50-75% amount in a few pockets but overall I will call this an L lowland brush type.
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5	4130 - Aspen	Poletimber Well	26.6	34	81-110	N/A	Old deer yard aspen sale.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	90	Pole	7	34	Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Fir	5	Pole	7		White Spruce	Medium	5 - 10 feet	Sapling
White Spruce	5	Pole	5		Hazelnut (Spp.)	Medium	5 - 10 feet	Tall Shrub
					Black Cherry	Low	Variable	Sapling

6	6120 - Lowland Cedar	Poletimber Well	243.6	126	141-170	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	8		Balsam Fir	Medium	5 - 10 feet	Sapling
Northern White Cedar	78	Pole	9	126	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Tamarack	15	Pole	9		Glossy Buckthorn	Low	5 - 10 feet	Tall Shrub
Black Ash	2	Pole	7					

7	6229 - Mixed lowland shrub	Nonstocked	26.7	0	Unspecified	6121 - Tamarack	Unit 3 of the Sitting Bear sale. Check the regeneration in the next inventory cycle.
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8	6115 - Lowland Ash	Poletimber Well	49.8	55	51-80	N/A	Some pockets with 100% black ash. Mix of areas with unmerchantable and merchantable trees
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole	6		Paper Birch	Low	< 5 feet	Sapling
Paper Birch	10	Pole	5		Balsam Fir	Low	5 - 10 feet	Sapling
Quaking Aspen	2	Log/Pole	10		Black Ash	Low	5 - 10 feet	Sapling
Balsam Fir	5	Pole	5					
Black Spruce	2	Pole	6					
Northern White Cedar	3	Pole	8					
Tamarack	4	Pole	9					
Black Ash	67	Pole	6	55				
Balsam Poplar	5	Pole/Log	9					

Walking across the north side it went from four to six inch black ash and then got into some pockets of seven to eight inch black ash. There is some scattered tamarack and some scattered balsam fir. Tag Alder mixed in underneath with some black ash. Wet and there's just no way this could be cut. EAB here as well as all ash stands within the compartment.

South end is more lowland brush with pockets of scattered cedar and Tamarack.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
9	4130 - Aspen	Sapling Well	34.8	25	Immature	N/A	Part of the Old Snake Bite balm sale. Mix of aspen and balm regeneration. Lowest areas have black ash.																																													
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10	6120 - Lowland Cedar	Sawtimber Well	25.0	111	141-170	N/A	Cedar and actual decent quality here.																																													
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11	622 - Lowland Shrub	Nonstocked	2.3	0		6121 - Tamarack	Check the regeneration in the next inventory cycle. A few little seedlings of tamarack and black spruce and balsam fir popping in but not much here yet.																																													
12	3102 - Grass	Nonstocked	1.6			No	Part of a trespass into state. This piece is being tilled and farmed by landowner to the north. No other expansion beyond what has been here has occurred.																																													
13	6120 - Lowland Cedar	Poletimber Well	7.4	107		N/A	Unit 4 of the Shinbuster sale. All cedar, hemlock, pine left. Blowdown cedar in this stand. The original stand was tamarack, cedar, balsam poplar, black ash, paper birch and spruce/fir. This stand cover type percent is high end of 50-75 or low end 75-100 with a few lowland brush and low shrub pockets.																																													
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14	6139 - Mixed Lowland Forest	Sapling Well	7.5	35	1-50	N/A	Porcupine damage in the tamarack																																													
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16	4130 - Aspen	Sapling Well	90.2	2	Immature	N/A	This stand was cut under the sitting bear sale completed in 2019. Small stand to the northeast was merged into 16 which is similar in regeneration. This was as separate unit in the sitting bear sale.																																																													
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17	4199 - Other Mixed Upland Deciduous	Sapling Well	33.8	10	1-50	N/A	This was previously Plum creek and harvested just prior to purchase by state.																																																													
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18	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	40.1	14	Immature	N/A	This stand was unit 3 of the Shin buster sale. Mixed upland/lowland. Cedar, red maple,pine,hemlock here as well.																																																													
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19	4130 - Aspen	Sapling Well	45.9	14	Immature	N/A	Black ash along the edges toward the lowland stands. Couple small pockets of hardwoods.																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>21</b>	6139 - Mixed Lowland Forest	Poletimber Well	5.4	60	1-50	N/A	Very mixed stand of F/Q/E type with some merchantable balm.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Quaking Aspen		5	Pole	9		Balsam Fir	
Balsam Poplar		10	Pole	8		White Spruce	
Balsam Fir		30	Pole/Sapling	5	58	White Spruce	
White Spruce		10	Sapling/Pole	4		Black Ash	
Black Ash		30	Pole/Sapling	5	60	Tag Alder	
Northern White Cedar		5	Log/Pole	10			
Tamarack		10	Log/Pole	10			
<b>22</b>	4130 - Aspen	Sapling Well	29.4	24	Immature	N/A	some pockets of black ash diameters are mixed of three to four up to a couple of five six inch diameter Aspen
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Quaking Aspen		94	Sapling/Pole	4	24	Quaking Aspen	
Balsam Poplar		2	Sapling/Pole	4		Balsam Fir	
White Spruce		2	Sapling/Pole	4		White Spruce	
Northern White Cedar		2	Pole	8		Black Ash	
<b>23</b>	6229 - Mixed lowland shrub	Nonstocked	4.7	0	Unspecified	6121 - Tamarack	This stand was cut under the Sitting Bear timber sale closed in 2019. Cattails a few small black spruce popping in but not much high water table in the past several years.
<b>24</b>	6120 - Lowland Cedar	Sawtimber Well	15.7	111	111-140	N/A	Other species include; black spruce, balm, quaking aspen. The far east along the line and to the south is where the majority of tamarack, quaking aspen, and balm is.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Paper Birch		15	Pole	9		Paper Birch	
Northern White Cedar		70	Log/Pole	10	111	Balsam Fir	
Tamarack		10	Log/Pole	10		Tamarack	
Black Ash		5	Pole/Sapling	6		Black Ash	
<b>25</b>	6120 - Lowland Cedar	Poletimber Poor	78.1	91	Unspecified	N/A	The canopy represents cedar and tamarack left post harvest following the shin buster sale. The overall canopy closure percent with overstory and understory species is 75-100%. Plots were done with a significant difference in sapling/seedling count between areas of residual timber and no residual timber. Some areas with no residual are full canopy of tamarack and some areas with no timber and cattails and tag alder.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Northern White Cedar		75	Pole	7	91	Paper Birch	
Tamarack		25	Pole	8		Balsam Fir	
						Balsam Fir	
						Black Spruce	
						Tamarack	
						Tag Alder	
						Balsam Poplar	
						Cattail spp.	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**26** 6115 - Lowland Ash Poletimber Well 29.0 70 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	10	Pole	7		Balsam Fir	Low	5 - 10 feet	Sapling
Northern White Cedar	5	Pole	7		White Spruce	Low	5 - 10 feet	Sapling
Black Ash	65	Pole	7	70	White Spruce	Low	Variable	Seeding
Balsam Poplar	10	Pole/Log	9		Black Ash	Low	5 - 10 feet	Sapling
Balsam Fir	10	Pole	7		Tag Alder	High	5 - 10 feet	Tall Shrub

**27** 6117 - Lowland Deciduous, Mixed Sapling Well 10.3 24 Immature N/A Mix of species with pockets of low ground and canopy closure closer to 75% than stand 26.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Sapling/Pole	4		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen	35	Sapling/Pole	4	24	White Spruce	Low	Variable	Seeding
Balsam Fir	5	Sapling	3					
White Spruce	10	Sapling	3					
Tamarack	5	Sapling	1					
Black Ash	35	Sapling/Pole	4					

**28** 6117 - Lowland Deciduous, Mixed Poletimber Well 7.4 55 N/A Small diameter with some pockets of merchantable timber. This stand is similar to stand 72 with merchantable timber mixed in with lowland shrubs and smaller black ash and pockets of cedar. Some tamarack here, and when balsam fir and mixed deciduous species are ready then look to harvest.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sapling	6		Paper Birch	Low	5 - 10 feet	Sapling
Paper Birch	15	Pole/Sapling	6		Balsam Fir	Medium	5 - 10 feet	Sapling
Quaking Aspen	10	Pole/Sapling	6		Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Poplar	15	Pole/Sapling	6					
Balsam Fir	15	Pole/Sapling	5					
Northern White Cedar	10	Pole	7					

**29** 6139 - Mixed Lowland Forest Poletimber Medium 36.1 55 1-50 N/A Mix of upland and lowland sap/pole with some pockets of cedar. Some areas are younger ages.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	15	Pole	7		Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Poplar	5	Pole	8		White Spruce	Low	Variable	Seeding
Balsam Fir	25	Pole	8	55	Tamarack	Low	5 - 10 feet	Sapling
White Spruce	15	Pole	6		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	10	Pole	9		Common Buckthorn	Medium	5 - 10 feet	Tall Shrub
Tamarack	5	Pole	6					
Black Ash	25	Pole/Sapling	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
<b>30</b>	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Poor	47.9	2	1-50	N/A	This stand has been harvested under the sitting bear timber sale. At this time the regeneration is spotty with aspen and some balm wiht the lowest areas coming in with black ash. The areas with no sapling about 75% of the areas is in cattails and tag alder. To the west is some residual cedar and residual retention pockets of pole sized timber.																																																								
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<b>31</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	26.9	51	81-110	N/A	This is a pole stand with some sapling size trees. Mix of quaking aspen with some balm pockets, red maple and black ash. There is some cedar and tamarack on the edges. This was broken apart from stand 16 cut under the sitting bear sale in order to distribute age classes.																																																								
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<b>32</b>	6120 - Lowland Cedar	Poletimber Well	38.2	126	141-170	N/A	Mostly cedar with some Tamarack mixed in. Black spruce here as well.																																																								
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<b>34</b>	6120 - Lowland Cedar	Poletimber Well	22.2	126	Unspecified	N/A	North end of stand has a pocket of paper birch and older balsam poplar.																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**36** 4191 - Mixed Upland Deciduous with Conifer Poletimber Poor 11.5 29 1-50 N/A Spruce filling in some opening areas. Ash, Black cherry here as well. This stand may be able to be combined in the future with surrounding aspen stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Sapling	5		Balsam Poplar	Low	< 5 feet	Sapling
Quaking Aspen	35	Pole/Sapling	5		White Spruce	Low	< 5 feet	Sapling
Balsam Poplar	35	Pole/Sapling	5	29	Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	10	Pole	6					
White Spruce	15	Sapling	3					

**37** 4130 - Aspen Poletimber Well 12.7 36 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	65	Pole/Sapling	5	36	Balsam Fir	Medium	10 - 20 feet	Sapling
Balsam Poplar	30	Pole/Sapling	5		White Spruce	Low	5 - 10 feet	Sapling
Balsam Fir	5	Sapling/Pole	4		Red Maple	Low	5 - 10 feet	Sapling
					Tamarack	Trace	< 5 feet	Sapling
					Tag Alder	Trace	5 - 10 feet	Tall Shrub
					Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub

**38** 4130 - Aspen Poletimber Well 41.7 29 Immature N/A

Small pocket of northern hardwood and a couple of cedar. The two track through the stand was frost seeded with red clover in 2010 and 2007.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	9		Quaking Aspen	Low	5 - 10 feet	Sapling
Quaking Aspen	60	Pole/Sapling	5	29	Balsam Poplar	Low	< 5 feet	Sapling
Balsam Poplar	30	Pole/Sapling	5		White Spruce	Low	< 5 feet	Sapling
White Spruce	5	Sapling	3					

**39** 6120 - Lowland Cedar Sawtimber Well 46.9 126 141-170 N/A

The north end had some mature balm, red maple and balsam fir and spruce.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Log/Pole	10		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce	5	Pole	9		Balsam Fir	Low	5 - 10 feet	Sapling
Northern White Cedar	70	Log/Pole	11	126	Black Ash	Low	5 - 10 feet	Sapling
Balsam Poplar	5	Log/Pole	10					
Red Maple	5	Log/Pole	10					
Balsam Fir	5	Pole	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>40</b>	4136 - Aspen, Mixed Conifer	Sapling Medium	10.0	29	Immature	N/A	Some tag alder.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	55	Sapling	3	29	White Spruce	Low	< 5 feet	Sapling
Balsam Poplar	10	Sapling	3		Red Maple	Medium	5 - 10 feet	Sapling
White Spruce	5	Sapling	3		Tag Alder	Low	5 - 10 feet	Tall Shrub
Tamarack	5	Sapling	2		Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Fir	10	Sapling/Pole	3					
Black Ash	10	Sapling/Pole	3					
Northern White Cedar	5	Log/Pole	10					

<b>41</b>	6121 - Tamarack	Poletimber Well	123.7	78	111-140	N/A	A portion of this stand to the north was sold and not completed as the Tamarack Central timber sale. This stand appears to have Eastern Larch Beetle and porcupine damage throughout. The stand will be lost and no treatment feasible within the next couple of treatment periods. Adjustments made to the stand boundary post cruise. Minor component of red maple, black spruce and black ash. Age from nearby tamarack stand in compartment 86.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole	7		Paper Birch	Trace	< 5 feet	Sapling
Balsam Fir	5	Pole	6		Tag Alder	High	5 - 10 feet	Tall Shrub
Northern White Cedar	25	Pole	9		Balsam Fir	Low	< 5 feet	Sapling
Tamarack	60	Pole	9	78	Tamarack	Low	Variable	Sapling

<b>42</b>	6229 - Mixed lowland shrub	Nonstocked	7.5			No	
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<b>43</b>	4130 - Aspen	Sapling Well	11.2	14	1-50	N/A	This stand was cut in the winter of 2007 (009-03-01). Some cedar and black ash left. Mix of upland and lowland areas.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	63	Sapling	3	14	Quaking Aspen	Low	< 5 feet	Sapling
Balsam Poplar	10	Sapling	3		Balsam Poplar	Low	< 5 feet	Sapling
Northern White Cedar	10	Log/Pole	10		Balsam Fir	Low	< 5 feet	Sapling
Black Ash	17	Sapling/Pole	3					

<b>44</b>	4130 - Aspen	Poletimber Well	35.9	35		N/A	Cut under contract 22-85-01.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	90	Pole/Sapling	5	35	Quaking Aspen	Low	< 5 feet	Sapling
Balsam Poplar	10	Pole/Sapling	5		Balsam Fir	Medium	5 - 10 feet	Sapling
					Tag Alder	Low	5 - 10 feet	Tall Shrub
					Hazelnut (Spp.)	High	5 - 10 feet	Tall Shrub
					Red Maple	Medium	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>54</b>	6115 - Lowland Ash	Poletimber Well	9.2	55	Unspecified	N/A	Some pockets with 100% black ash. Mix of areas with unmerchantable and merchantable trees.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole	6		Paper Birch	Low	< 5 feet	Sapling
Paper Birch	10	Pole	5		Balsam Fir	Low	5 - 10 feet	Sapling
Quaking Aspen	2	Pole	10		Black Ash	Low	5 - 10 feet	Sapling
Balsam Fir	5	Pole	5					
Black Spruce	2	Pole	6					
Northern White Cedar	3	Pole	8					
Tamarack	4	Pole	9					
Black Ash	72	Pole	6	55				

<b>72</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	11.0	55		N/A	Small diameter with some pockets of merchantable timber. Some timber along the edge but turns submerchantable interior of the stand with tag alder and lowland shrubs.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sapling	6		Paper Birch	Low	5 - 10 feet	Sapling
Paper Birch	15	Pole/Sapling	6		Balsam Fir	Medium	5 - 10 feet	Sapling
Quaking Aspen	10	Pole/Sapling	6		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Poplar	15	Pole/Sapling	6					
Balsam Fir	20	Sapling/Pole	4	55				
Northern White Cedar	10	Pole	7					
Black Ash	15	Sapling/Pole	3					
Tamarack	5	Log/Pole	10					