



# Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33012

Entry Year 2021

Acreage: 685

County Menominee

Management Area: Menominee End Moraine

**Revision Date:** 2019-07-01

**Stand Examiner:** Dustin Salter

**Legal Description:**

T37N R28W Sections 28, 32, and 33

**Identified Planning Goals:**

This compartment is comprised of primarily aspen, with some other upland areas of oak and white pine. There are a few small mixed lowland types. The aspen has a mix of age classes, but the two largest stands are 38 and 49 years old. A portion of the 38 year old aspen will be harvested to begin to breakup the age class of this large stand. And about half of the 49 year old stand will be harvested to break up the age class of this stand. The spruce budworm has caused significant mortality of the spruce/fir within the compartment. The eastern larch beetle has also killed most of the tamarack. This compartment and surrounding area have a very high deer population. The stands that were harvested last entry period, overall have very poor regeneration. The deer have heavily browsed the sprouting trees, causing a very high percentage to die. Larger harvests are needed to overwhelm the deer to obtain the desired regeneration. There have been numerous treatments to treat Oak Wilt epi-centers in the past. If oak wilt is identified again, treat it as necessary.

**Soil and topography:**

Topography is nearly level to moderately steep. Soils include well drained sand over loamy soils and excessively drained sands. Prominent soil series are Leelanau, Menominee, and Grayling.

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

This compartment is located at the west edge of a belt of state forest land that is about 20 miles long and 8 miles wide in southwestern Menominee County. This belt of land is highly splintered with private in-holdings, and this compartment is fractured with privately owned forest land, which is used primarily for recreation. There are some private residences just to the west of the compartment, along the State Road.

**Unique Natural Features:**

None Known

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

None Known

**Special Management Designations or Considerations:**

None

**Watershed and Fisheries Considerations:**

The Miscauna Creek flows through the northern half of the compartment. And Goodman Brook flows just southeast of the southern half of the compartment. Both of these creeks and brooks flow into the Menominee River. There are no developed access areas for either of these waterbodies.

**Wildlife Habitat Considerations:**

This is an early successional compartment that provides habitat for many of the most popular game species and other wildlife using early stages of forest succession. Two-thirds of this compartment is comprised of aspen forest, some stands will be treated this decade providing varying age classes. There is some proposed timber harvesting in oak stands and upland deciduous types, and harvest prescriptions will retain mature oak for mast production and stand diversity. Some oak will be harvested this decade in an attempt to regenerate trees via stump sprouting.

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

There has been a history of metallic mineral leasing to the east of the compartment but there was no documented exploration of state-owned minerals, and there are no active leases in the area. Active mineral leases associated with the Back Forty project are located six miles to the south. Aquila Resources currently have all necessary permits approved to begin mine development. There is potential for additional discoveries of similar ore bodies in the area. Aeromagnetic surveys show a positive anomaly underlying the compartment, which could be related to iron formation. Some core

samples from the area show presence of iron oxide minerals but not much in the way of sulfide minerals. Active aggregate (sand, gravel, and limestone) mining operations are located to the east along US-41. Glacial sediments within the compartment are probably less than 40 feet thick in most places. The best potential for sand & gravel within the compartment is in Section 28, which is on the edge of a drumlin field. There is no known potential for economic hydrocarbon production in the UP.

#### **Vehicle Access:**

The primary road into the southern half of the compartment is the Miscauna Creek Road. This road is a state maintained road. There are a couple of two-track roads that branch off of this road into other parts of the compartment. Access into some of the compartment is through private property. The northern portion is accessed from an old railroad grade, which is in very poor condition. There is a good system of old logging roads within the northern portion of the compartment that branch off of the old railroad grade, that will need to be opened up to access the proposed treatments in this area.

#### **Survey Needs:**

Three registered corners will need to be set, to prepare the proposed timber sales.

#### **Recreational Facilities and Opportunities:**

There are no developed recreational facilities within the compartment, or adjacent to it. The primary uses of the compartment are hunting and riding ATV's.

#### **Fire Protection:**

The majority of this compartment consists of dry sandy soils, but most of them are covered by deciduous species, thus reducing the potential for large uncontrolled fires. During the spring time a fast moving surface fire is possible, though. The primary water site would be the Menominee River and the Miscauna Creek.

#### **Additional Compartment Information:**

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

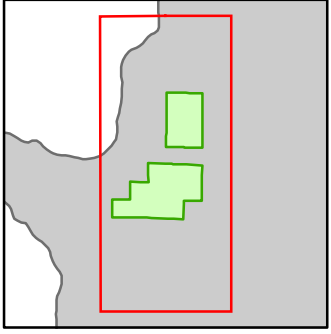
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

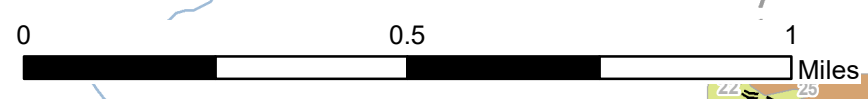
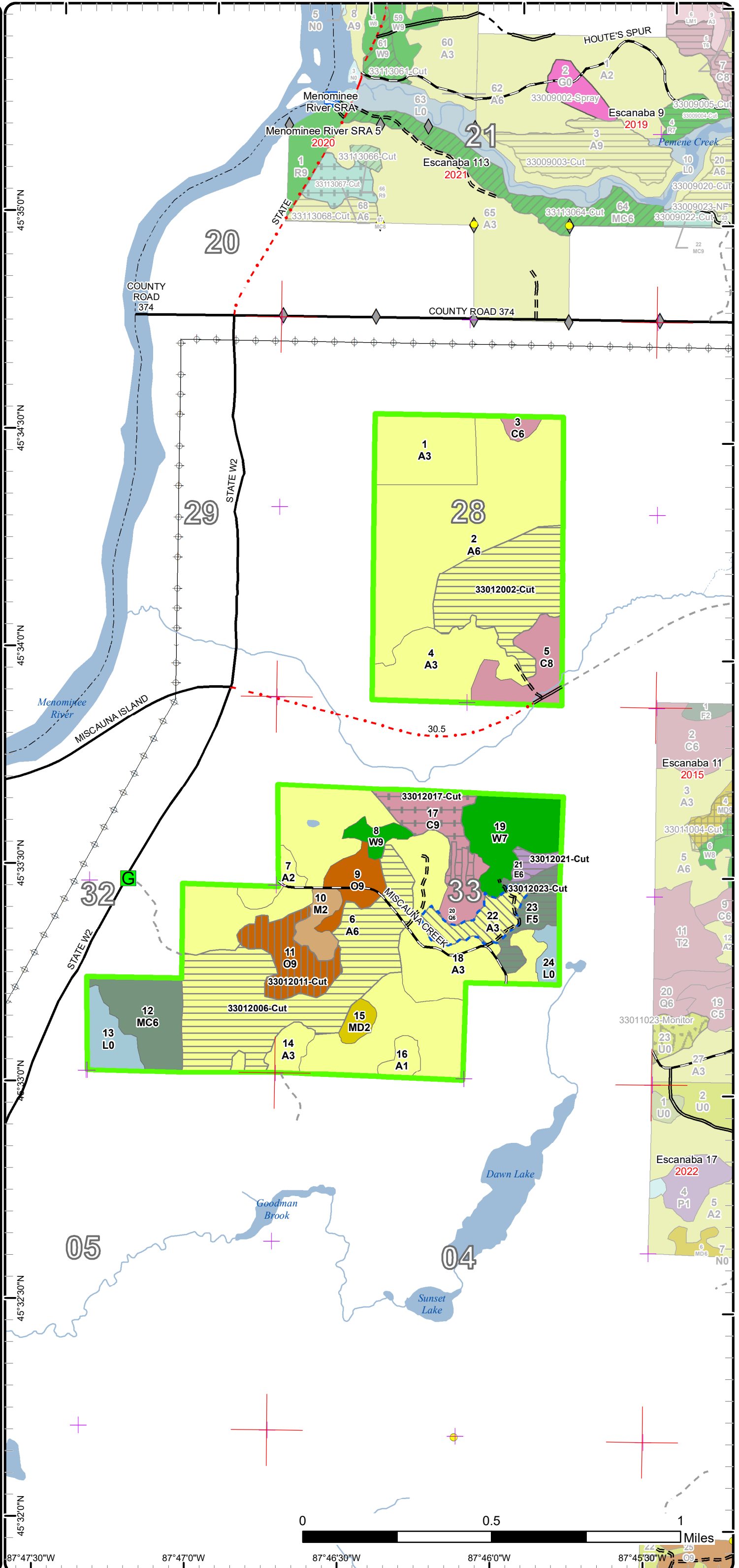
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 12  
 T37N-R28W Sec. 28,32,33  
 County: Menominee  
 Unit: Escanaba  
 Mgmt Area: Menominee End Moraine  
 YOE: 2021  
 Acres: 685 GIS Calculated  
 Examiner: Dustin Salter  
 Map Revised: 10/30/2019  
 Map Phase: Post-Review



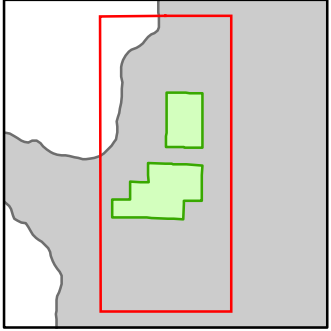
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- - - Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State - Paved Road
- - - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
- - - Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- G Gate
- Boating Access Site
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Other Harvest - See Comments
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 622 - Lowland Shrub



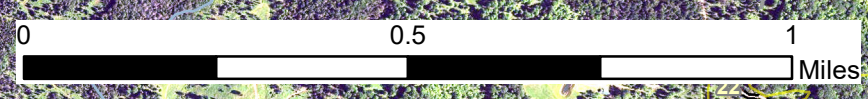
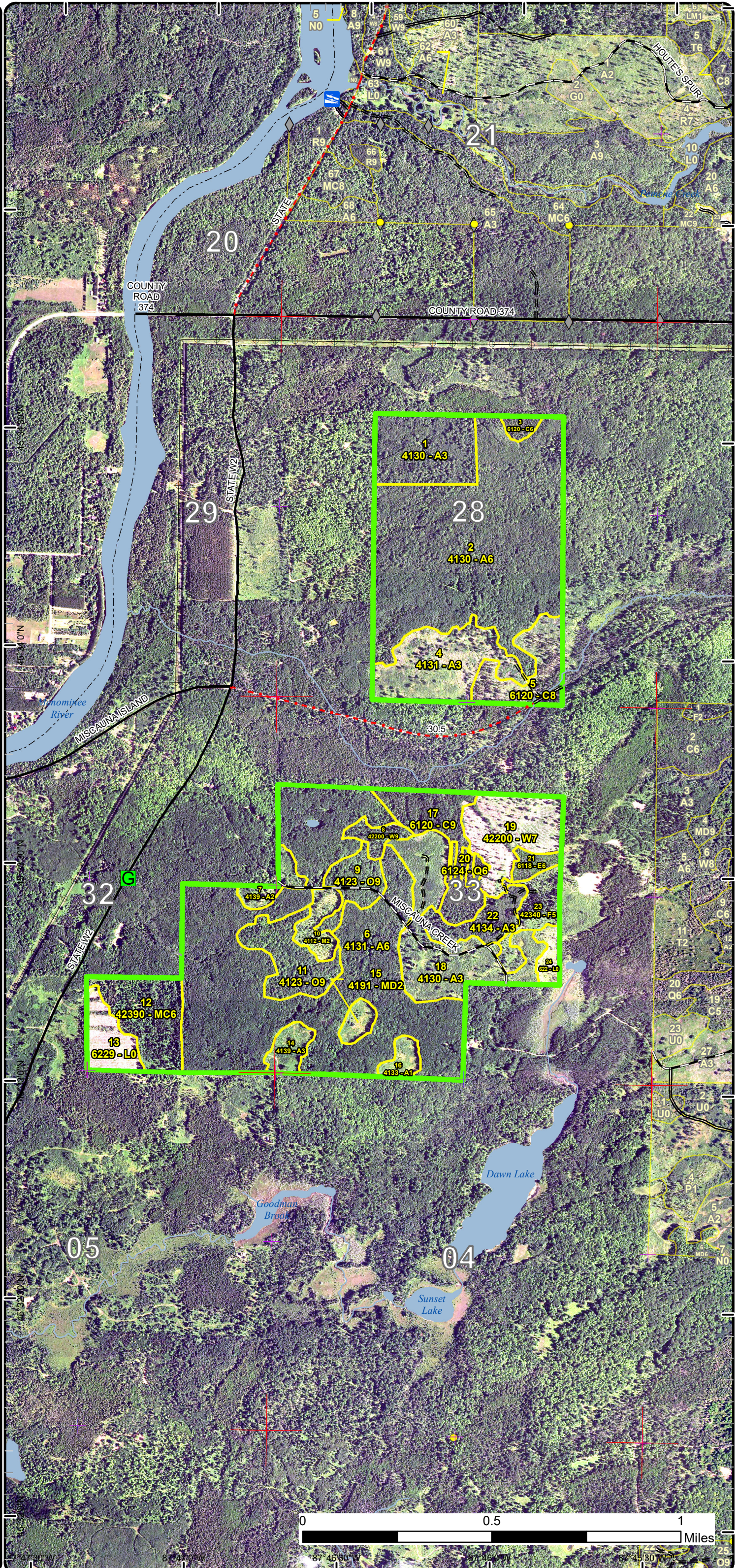
87°47'30"W 87°47'0"W 87°46'30"W 87°46'0"W 87°45'30"W

# Stand Boundary Map

Compartment: 12  
 T37N-R28W Sec. 28,32,33  
 County: Menominee  
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 Moraine  
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 Map Phase: Post-Review

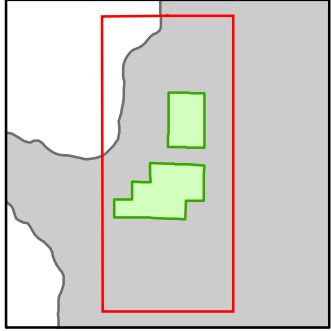


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
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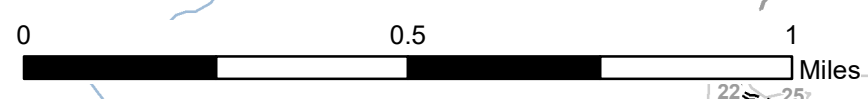
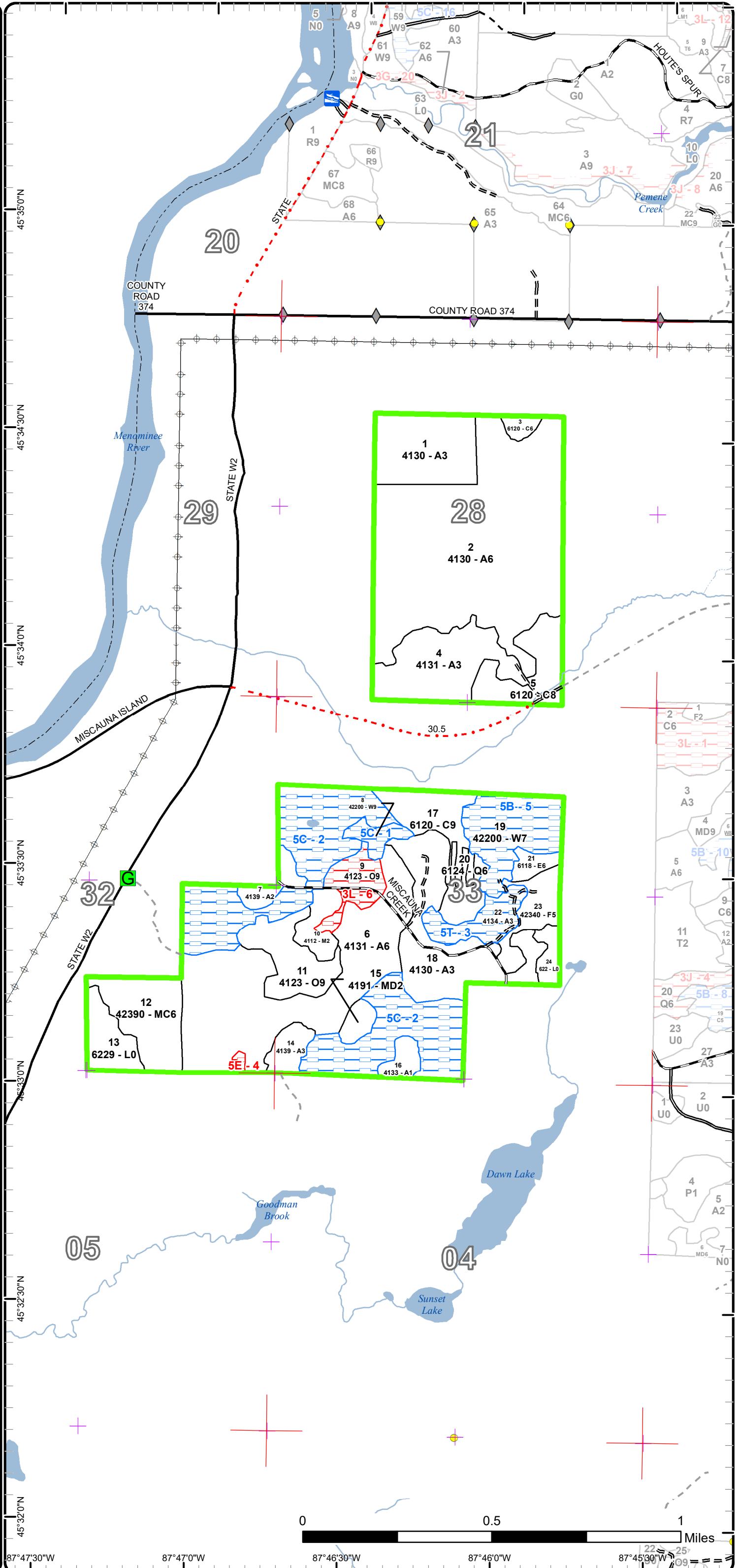


# Special Conservation Areas

Compartment: 12  
 T37N-R28W Sec. 28,32,33  
 County: Menominee  
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 YOE: 2021  
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- B Boating Access Site
- ⊕ Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 5T: Contingency Treatment for Forest Health Concerns
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes



87°47'30"W    87°47'0"W    87°46'30"W    87°46'0"W    87°45'30"W

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	14	32	152	189	0	0	0	0	0	0	0	0	0	0	0	0	488
Cedar	0	0	0	0	0	0	0	0	0	0	0	21	21	0	0	0	0	0	42
Lowland Conifers	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5
Lowland Shrub	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Mixed Upland Deciduous	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Northern Hardwood	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Oak	0	0	0	0	0	0	0	0	0	0	0	34	0	0	0	0	0	0	34
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	26
Upland Spruce/Fir	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	13
White Pine	0	0	0	0	0	0	0	0	0	0	0	6	30	0	0	0	0	0	36
<b>Total</b>	<b>19</b>	<b>115</b>	<b>14</b>	<b>32</b>	<b>152</b>	<b>189</b>	<b>9</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>40</b>	<b>56</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>27</b>	<b>686</b>



## Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 12

Total Compartment Acres: 685

Commercial Harvest - 195  
 Harvests with Site Condition - 14  
 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	138	0	0	0	0	0	0	14		152
Cedar	0	0	0	0	0	18	0	0		18
Lowland Deciduous	4	0	0	0	0	0	0	0		4
Oak	0	0	0	22	0	0	0	0		22
Upland Spruce/Fir	13	0	0	0	0	0	0	0		13
<b>Total</b>	<b>156</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>0</b>	<b>18</b>	<b>0</b>	<b>14</b>		<b>209</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	209	0	0	0	0	0	0	0		209
Next Step	0	0	0	0	0	177	0	0		177
<b>Total</b>	<b>209</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>177</b>	<b>0</b>	<b>0</b>		<b>387</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	Approval Status
2	33012002-Cut	49.2	4130 - Aspen	Poletimber Well	38	51-80	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	Draft Field Boundary

**Habitat Cut: No**                      **Site Condition:**

Prescription Cut all trees greater than 3" inches; except retain all white and red pine. Also, retain some dense clumps/pockets of oak. Most of these pockets are on the west side of the treatment area. But maintain clumps of oak throughout the stand. Protect the vernal ponds within the stand.

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Aspen, oak, maple, pine, and spruce/fir.  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2020

6	33012006-Cut	89.2	4131 - Aspen, Oak	Poletimber Well	49	51-80	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Two-Aged	Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition:**

Prescription Cut all trees greater than 3" inches; except retain some clumps/patches/individual trees of oak and pine. Also, there is a small patch of lowland cedar and conifer on the southern end of the treatment area that will be retained.

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Aspen, oak, maple, pine, and spruce/fir.  
Regen:

Other If oak wilt is identified within the stand, treat it as necessary to prevent the spread.  
Comment:

Proposed Start Date: 10/1 /2020

11	33012011-Cut	21.5	4123 - Red Oak	Sawtimber Well	103	111-140	Harvest	Shelterwood	4122 - Oak, Pine	Two-Aged	Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition:**

Prescription Mark to retain 30 to 40 BA of oak and pine, cutting all other merchantable trees.

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Oak, pine, maple, and aspen.  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2020

17	33012017-Cut	18.2	6120 - Lowland Cedar	Sawtimber Well	115	111-140	Harvest	Overstory Removal	6132 - Mixed Lowland Forest with Cedar	Two-Aged	Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition:**

Prescription Cut all trees greater than 3" inches; except retain all cedar. Also, mark to retain some white pine seed trees.

Next Step  
Treatments:

Acceptable Pine, cedar, aspen, balm, birch, maple, and spruce/fir.  
Regen:

Other This stand has over 45% cedar, but because of the past management activities of strip cutting in the past, the majority of the stand is mature and ready to be harvested. All cedar is being retained to protect the dense areas of cedar, that were retained during the last harvest about 50 years ago.  
Comment:

Proposed Start Date: 10/1 /2020





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	Approval Status
21	33012021-Cut	4.1	6118 - Lowland Deciduous with Cedar	Poletimber Well	115	51-80	Harvest	Clearcut with Retention	6115 - Lowland Ash	Even-Aged	Draft Field Boundary

**Habitat Cut: No**                      **Site Condition:**

Prescription Cut all trees greater than 3" inches; except retain the dense patch of cedar in the southwestern part of the stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Spruce/fir, tamarack, ash, and cedar.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

22	33012022-Cut	14.0	4134 - Aspen, Spruce/Fir	Sapling Well	17	1-50	Harvest	Other - Specify	4136 - Aspen, Mixed Conifer	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition: Contingency Treatment**

Prescription Cut all merchantable spruce and balsam fir. Also, cut the mature pine, leaving some seed trees.

Specs:

Next Step

Treatments:

Acceptable Aspen, balm, pine, and spruce/fir.

Regen:

Other The spruce budworm is defoliating the spruce/fir, but there isn't enough volume to harvest this stand by itself. If there is enough volume left

Comment: when the adjacent treatments are set up as part of the 2021 POW include this treatment.

Proposed Start Date: 10/1 /2020

23	33012023-Cut	13.2	42340 - Upland Spruce/Fir	Poletimber Medium	65	1-50	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition:**

Prescription Cut all trees greater than 4" inches; except mark to retain some pine seed trees.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Spruce/fir, pine, aspen, balm, birch, and cherry.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

**Total Treatment Acreage Proposed: 209.4**

## Report 4 – Site Conditions

Escanaba Mgt. Unit  
Dustin Salter : Examiner

Compartment: 12  
Year of Entry: 2021

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		5B	5C	5T	3L	5E
487	373	112	1	Aspen		98	14		1
42	42	0	0	Cedar					
9	9	0	0	Lowland Conifers					
5	5	0	0	Lowland Deciduous					
19	19	0	0	Lowland Shrub					
5	5	0	0	Mixed Upland Deciduous					
9	9	0	0	Northern Hardwood					
34	21	0	12	Oak				12	
26	26	0	0	Upland Conifers					
13	13	0	0	Upland Spruce/Fir					
36	0	36	0	White Pine	30	6			
685	524	148	14	Total Forested Acres	30	104	14	12	1
	76%	22%	2%	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	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This stand could be thinned again, but hold the stand until next entry period because of the number of adjacent treatments.							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	98	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Large mature aspen stand that we are only harvesting half of, to spread out the aspen age classes.							

## Report 4 – Site Conditions

Escanaba Mgt. Unit  
Dustin Salter : Examiner

Compartment: 12  
Year of Entry: 2021

3	<b>Available</b>	<b>5T: Contingency Treatment for Forest Health Concerns</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> The spruce budworm is defoliating the spruce/fir, but there isn't enough volume to harvest this stand by itself. If there is enough volume left when the adjacent treatments are set up as part of the 2021 POW include this treatment.							
4	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Lowland conifer patch within a large upland stand.							
5	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> A shelterwood harvest was done. The overstory is being retained to provide a seed source and partial shade for conifer regeneration.							
6	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wildlife wanted to postpone an oak harvest until the next entry period.							

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																																				
1	4130 - Aspen	Sapling Well	31.8	22	1-50	N/A	Good quality aspen sapling/pole stand with residual mature oak on the east half and older spruce/fir on the west half. The stand was clearcut between 1996 and 1999 on contract 008-96-01. The spruce/fir is being defoliated by the spruce budworm, but there isn't enough volume to salvage.																																				
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>15</td> <td>Log</td> <td>14</td> <td>103</td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Pole/Sapling</td> <td>6</td> <td>50</td> </tr> <tr> <td>White Spruce</td> <td>6</td> <td>Pole/Sapling</td> <td>6</td> <td>50</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>60</td> <td>Sapling/Pole</td> <td>4</td> <td>22</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Oak	15	Log	14	103	Balsam Fir	10	Pole/Sapling	6	50	White Spruce	6	Pole/Sapling	6	50	Bigtooth Aspen	60	Sapling/Pole	4	22	<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Hazelnut (Beaked)</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Canopy Species	Density	Avg. Height	Size	Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub						
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2	4130 - Aspen	Poletimber Well	151.6	38	51-80	N/A	Good quality aspen stand with pockets of mature red oak mixed in. This stand was clearcut between 1982 and 1986 on contracts 037-81A and 053-81-01. The oak and pine was retained. The southern end is older than the north end. The aspen has much larger diameters on the southern end. The western half of the stand has more conifer regeneration. To break up the age class of this large aspen stand a portion of it will be harvested this entry, prior to it reaching maturity.																																				
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3	6120 - Lowland Cedar	Poletimber Well	3.2	115	141-170	N/A	Dense high quality cedar stand with some other scattered species mixed in.																																				
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4	4131 - Aspen, Oak	Sapling Well	35.5	6	1-50	N/A	Stand was clearcut in 2013 on contract 031-11-01. Some pine, oak, spruce, and cedar were marked to retain. Two aged stand with mature oak and pine with an understory of aspen, maple and conifer regeneration. The west and east ends have more aspen regeneration and the central part has more conifer regeneration. The deer have heavily browsed the aspen, maple, and oak regeneration. Most of the oak sprouts have been killed by over browsing. Also, a significant amount of the aspen and maple sprouts have been killed by over browsing.																																				
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5	6120 - Lowland Cedar	Sawtimber Medium	20.8	121	51-80	N/A	Stand was clearcut in 2015 on contract 031-11-01. All trees greater than 3 inches were cut, except some pine and spruce were marked to retain. Also, all cedar greater than 10" inches was retained. The residual BA ranges from 20 to 120, with an average of 50. Balm is regenerating throughout most of the stand and in the more open areas there is some spruce and white pine regeneration. The Miscauna creek flows through the SW portion of this stand and a 100' buffer was left along it.																																				
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6	4131 - Aspen, Oak	Poletimber Well	188.7	49	51-80	N/A	Mature good quality aspen stand, with some older mature oak and pine mixed in. The eastern and western thirds of the stand have a higher percentage of big tooth aspen and the central portion has a higher percentage of quaking aspen. To spread out the age classes of this large stand, only about half of the stand will be harvested this year of																																								
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7	4139 - Aspen, Mixed Deciduous	Sapling Medium	7.0	7	1-50	N/A	Stand was clearcut in 2012 on contract 032-11-01. Some oak and pine were marked to retain, about 20 BA. The northern half of the stand has regenerated well where there was more aspen. But, the southern half of the stand where it had more red maple and oak has very little regeneration. The deer have heavily browsed the maple and oak sprouts, causing most of them to die.																																								
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8	42200 - Natural White Pine	Sawtimber Well	5.7	103	81-110	N/A	Stand was thinned in 2012 on contract 032-11-01. The pine and oak was marked to cut and all other species greater than 3" inches were cut. The hardwood and aspen that sprouted have been heavily browsed by deer, causing a significant amount of mortality. The stand is too dense overall to get much regeneration. This stand could be thinned again, but hold the stand until next entry period because of the adjacent treatments around it.																																								
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9	4123 - Red Oak	Sawtimber Well	12.5	103	81-110	N/A	This stand was final harvested in the 1970's, except the oak and pine were retained. The stand is now two-aged. It has mature red oak over 45 year old hardwood poles and saplings. The oak is mature and we need to begin to regenerate. The stand will be shelterwood cut to release the advanced hardwood regeneration and get some pine and oak to seed in.																																								
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10	4112 - Maple, Beech, Cherry Association	Sapling Medium	9.0	5	1-50	N/A	This stand was final harvested in the 1970's, except the oak and pine were retained. Oak wilt was identified and treated in 2014 and cut on contract 032-11-01. The stand had sprouted with red maple, aspen, and oak sprouts, but the deer have heavily browsed them, killing most of the oak and aspen sprouts and only about half of the red maple sprouts have survived. The more open areas are filling in with white pine.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
11	4123 - Red Oak	Sawtimber Well	21.5	103	111-140	N/A	This stand was harvested in the 1970's, all species; except oak and pine were cut. The stand is a two aged stand with mature oak and pine over an understory of aspen and hardwood saplings/poles. This stand will be shelterwood cut to begin to regenerate the oak and pine and to release the advanced aspen and hardwood regeneration.																																											
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12	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	26.5	45	1-50	N/A	Stand was cut in 1995 on contract 027-94-01. All aspen, balsam, and birch were cut, the pine was marked to cut, the balsam fir and spruce with more than 3 sticks were cut, and the maple and ash greater than 6" inches was cut. The stand is very diverse, with the highest densities of spruce/fir. The ages are very variable with the past treatment. The spruce/fir is being defoliated by the spruce budworm, but there isn't enough volume to try and salvage it. There is a retention patch of dense cedar in the northeast part of the stand.																																											
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13	6229 - Mixed lowland shrub	Nonstocked	13.5	0	Unspecified	612 - Lowland Coniferous Forest	Stand was clearcut in 2016 on contract 032-11-01. There is some residual advanced regeneration, in three narrow strips that were cut in the 1970's on the north end of the stand. There was about 3 feet of snow when this stand was looked at, so no regeneration was visible.																																											
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14	4139 - Aspen, Mixed Deciduous	Sapling Well	7.5	7	Immature	N/A	Stand was clearcut in 2012 on contract 032-11-01. A few scattered oak and pine were marked to retain. The stand has regenerated with a mix of red maple and aspen and some scattered white pine seedlings. The aspen, maple, and oak have been heavily browsed by deer, with about half of the aspen and maple being killed and all of the oak sprouts being killed.																																											
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15	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	4.9	5	Immature	N/A	This stand was cut in 2014 on contract 032-11-01. Oak wilt was identified and treated within this stand. A few large pine were retained. The deer have heavily browsed and killed a significant amount of the aspen, maple, and all of the oak sprouts. There is now just scattered aspen and maple sprouts with some pockets of white pine regeneration.																																											
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16	4133 - Aspen, Mixed Pine	Sapling Poor	5.4	5	Immature	N/A	This stand was cut in 2014 on contract 032-11-01. Oak wilt was identified and treated within this stand. A few large pine were retained. The deer have heavily browsed and killed a significant amount of the aspen, maple, and all of the oak sprouts. There is now just scattered aspen sprouts with some scattered white pine regeneration. The hazel brush has also been heavily browsed.																																											
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17	6120 - Lowland Cedar	Sawtimber Well	18.2	115	111-140	N/A	This stand is a mix of lowland and upland. The western half of the stand is lower, with mature cedar and strips that were cut out of the stand about 50 years ago. The eastern half is higher with a higher percentage of white pine and hardwood. The strip cuts regenerated with a mix of aspen, balm, birch, and balsam fir. There are some dense patches of cedar on the west end of the stand.																																					
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18	4130 - Aspen	Sapling Well	45.3	7	Immature	N/A	Stand was clearcut in 2012 on contract 032-11-01. Some pine and oak were marked to retain. The stand has regenerated well with aspen. There are some open patches that are filling in with white pine. These open areas had more red maple and oak in them previous to the harvest. The deer have browsed and killed nearly all of the oak and maple sprouts throughout the stand.																																					
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19	42200 - Natural White Pine	Sawtimber Poor	29.9	115	1-50	N/A	This stand was shelterwood cut in 2016 on contract 032-11-01. About 20 BA of white and red pine and oak were marked to retain. There is a narrow drain that flows through the center of the stand, this was buffered and left un-cut. About half of the stand has regenerated with aspen and balm. The deer have browsed and killed almost all of the maple and oak sprouts. Over time the open areas should fill in with pine, balm, and spruce/fir, but the hardwood and oak have been eliminated from the stand by the deer.																																					
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20	6124 - Lowland Spruce-Fir	Poletimber Well	9.3	50	1-50	N/A	Stand was harvested about 50 years ago and has is now a mix of lowland conifers and hardwoods. The balsam fir has been heavily defoliated by the spruce budworm, but there isn't enough volume to harvest at this time.																																					
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21	6118 - Lowland Deciduous with Cedar	Poletimber Well	4.7	115	51-80	N/A	Low quality black ash stand with a dense pocket of cedar in the southwestern part of the stand and some low quality cedar scattered throughout. The ash should be harvested prior to the arrival of the emerald ash borer.																																					
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22	4134 - Aspen, Spruce/Fir	Sapling Well	14.0	17	1-50	N/A	Stand was clearcut in 2002 on contract 022-01-01. The pine and oak was retained. There was also a significant amount of advanced spruce/fir regeneration retained. The stand has thick aspen and balm regeneration, with patches of older spruce/fir, and also some large mature pine(most of which is on the west end). The spruce budworm is defoliating the spruce/fir, but there isn't enough volume to harvest this stand by itself. If there is enough volume left when the adjacent treatments are set up as part of the 2021 POW include this treatment.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>23</b>	42340 - Upland Spruce/Fir	Poletimber Medium	13.2	65	1-50	N/A	This stand is a mix of older spruce/fir, birch, and white pine with pockets of younger black cherry, white pine, and spruce/fir. The spruce budworm has caused a significant amount of spruce and balsam fir defoliation.
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Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
White Spruce	55	Pole/Log/Sap	8	65	White Pine	Medium	10 - 20 feet	Sapling
Paper Birch	8	Log/Pole	10					
White Pine	10	Log/XLog	16					
Black Cherry	10	Pole/Sapling	6					
Balsam Fir	15	Pole/Sapling	7	65				

<b>24</b>	622 - Lowland Shrub	Nonstocked	5.5	0	Unspecified	612 - Lowland Coniferous Forest	Stand was seed tree cut in 2012 on contract 032-11-01. There is already quite a bit of regeneration present, even with over 2' of snow on the ground. The stand should be fully stocked by next entry period.
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Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	>20 feet	Pole
Black Spruce	Low	< 5 feet	Sapling
Balsam Poplar	Low	< 5 feet	Sapling
White Pine	Low	< 5 feet	Sapling
Tamarack	Low	< 5 feet	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub