



# Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 34

Entry Year 2016

Acreage: 1,475

County Menominee

Management Area: Green Bay Lake Plain

**Revision Date:** 06/12/2014

**Stand Examiner:** Dan Racine

**Legal Description:**

T37N R 25W Sections 23-27

**Identified Planning Goals:**

The major cover types within this compartment are lowland spruce and fir, aspen and cedar. The overall compartment is a mix of upland and lowland cover types. The major upland cover type is aspen and the major lowland cover types are cedar and lowland spruce and fir. Within this compartment several of the upland and lowland stands proposed for treatment have a mix of upland and lowland cover types with a white pine and hemlock component in the overstory and white pine and mixed conifer component in the understory. The treatments within these stands are a mix of harvest methods designed to retain the hemlock component and enhance and promote the existing white pine and mixed conifer regeneration. The other treatments are aspen harvests, northern hardwood selection and thinnings, and mixed upland deciduous and lowland deciduous harvests.

**Soil and topography:**

The topography is level with drops in elevation to the swamps and lowland areas. The soil types in this compartment include; Deford poorly drained, Lupton Muck very poorly drained, Wainola fine sand somewhat poorly drained, Deford mucky fine sand poorly drained, Arnheim poorly drained. The prominent soil series in this compartment is DefordThe topography is level with drops in elevation to the swamps and lowland areas. The soil types in this compartment include; Deford poorly drained, Lupton Muck very poorly drained, Wainola fine sand somewhat poorly drained, Deford mucky fine sand poorly drained, Arnheim poorly drained. The prominent soil series in this compartment is DefordThe topography is level with drops in elevation to the swamps and lowland areas. The soil types in this compartment include; Deford poorly drained, Lupton Muck very poorly drained, Wainola fine sand somewhat poorly drained, Deford mucky fine sand poorly drained, Arnheim poorly drained. The prominent soil series in this compartment is Deford

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

This compartment contains mostly state land with private land interspersed throughout. The surrounding area is also state land with private land interspersed.

**Unique Natural Features:**

No Unique Natural Features known.

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

No Archeological, Historical, or Cultural Features known.

**Special Management Designations or Considerations:**

Special conservation areas are designated for riparian corridors for the Cedar River and Degraeves Creek.

**Watershed and Fisheries Considerations:**

Degraeves Creek and Cedar River riparian corridors.

**Wildlife Habitat Considerations:**

The east side of the compartment contains a large (600 acre) expanse of treed bog and spruce/cedar swamp. No management is practical within this area, and it will continue to be maintained for the unique plant and animal biodiversity it contains. The west side of the compartment contains a mix of aspen, mixed conifer, and mixed hardwood stands which provide valuable habitat for numerous game and non-game species. Degraeves Creek and the Big Cedar River run through the compartment and provide riparian habitat for many species of wildlife. Proposed treatments include clearcutting aspen, mixed conifer, and mixed deciduous stands which will establish early successional forest that will benefit white-tailed deer, ruffed grouse, and wild turkey. Pockets of cedar and hemlock will be retained in these areas to provide good seasonal

cover.

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

Surface sediments consist of lacustrine (lake) sand and gravel and minor medium-textured glacial till. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Trenton Formation underlies the glacial drift. The Trenton is quarried for stone west of Escanaba. This area has not been leased previously for metallic exploration. A gravel pit is located on a drumlin in Section 27 and potential appears to be good on the upland drumlins. No economic oil and gas production has been found in the UP.

### **Vehicle Access:**

The main access to this compartment is off the 7 mile marsh road and county road 551. There is presently good vehicle access with permission required for access through private lands for some of the treatments prescribed.

### **Survey Needs:**

Sections 23, 26, and 27.

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

The compartment provides opportunity for hunting and fishing with no developed recreational sites.

### **Fire Protection:**

There are adequate water resources as well as vehicle access to this compartment. There is low to moderate fire danger throughout this compartment except for some scattered pine types and private lands.

### **Additional Compartment Information:**

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

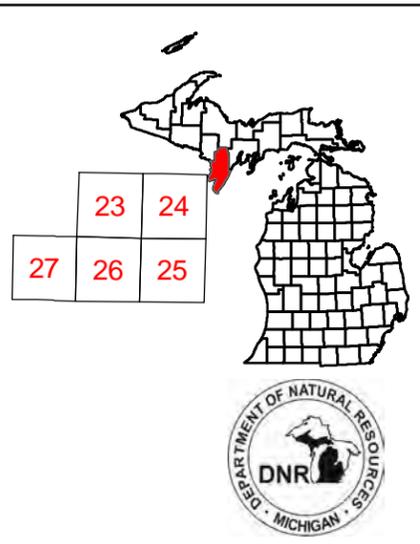
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

#### **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 & Treatment Map

Compartment: 034  
 T37N R25W Sec. 23-27  
 County: Menominee  
 Unit: Escanaba  
 YOE: 2016  
 Acres: 1,475 GIS Calculated  
 Examiner: Dan Racine  
 Map Revised: 05/16/2014  
 Map Phase: Pre-Review



**Stand #**      **Stocking Density**  
 23                      OI  
 (4120) - A7  
 Level 3              Code  
 Level 4  
**Cover Type Code**

**Legend**

- ORV Routes
- ORV Route

**Treatments**

- Clearcut (w/Reserves, Patch/Strip)
- Seed Tree (w/Reserves)
- Shelter Wood (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Selection (Group, Single Tree)
- Other Harvest - See Comments
- Other Treatment - See Comments

**Forest Stands**

Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

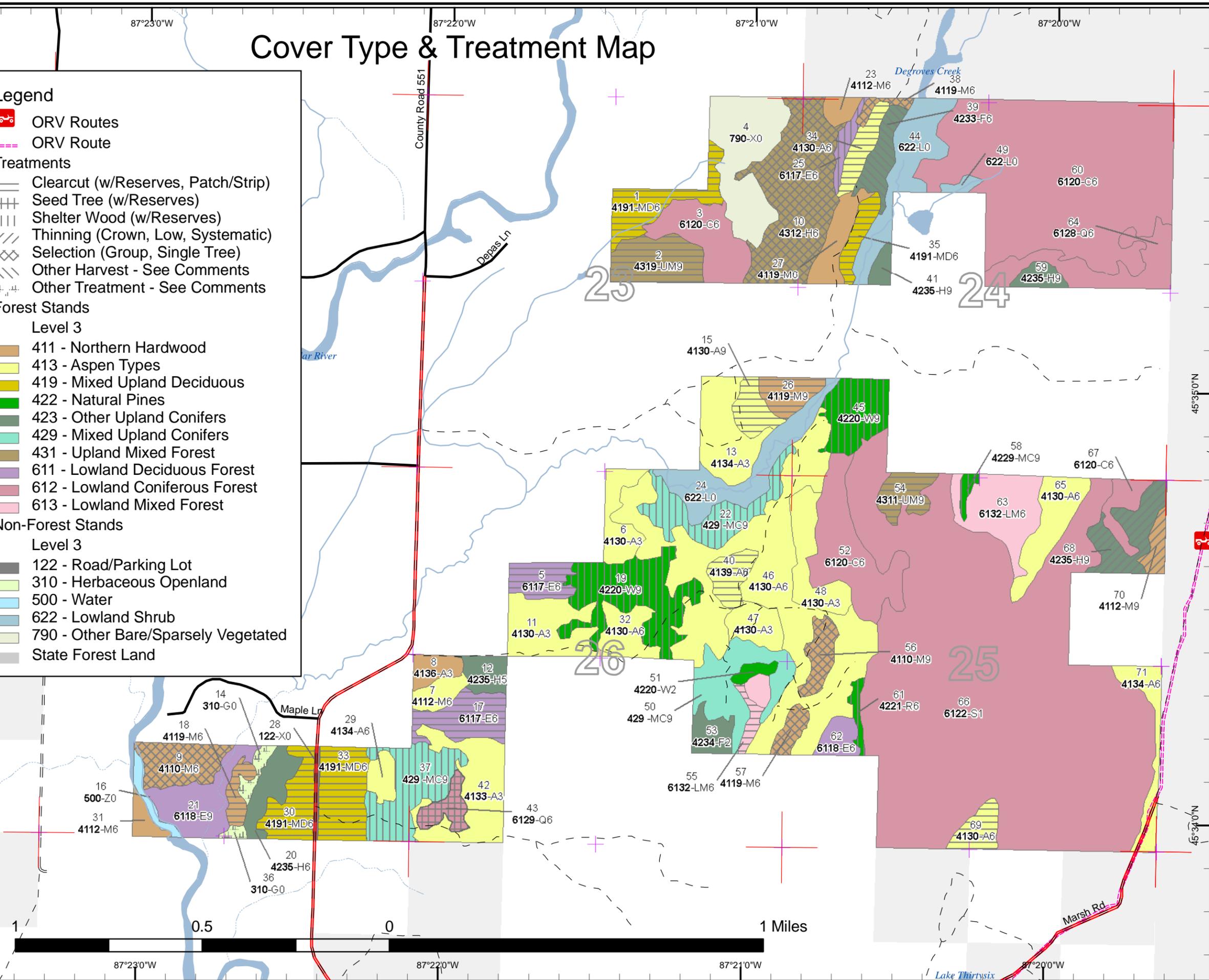
**Non-Forest Stands**

Level 3

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 790 - Other Bare/Sparsely Vegetated
- State Forest Land

**Legend**

- Remonumented Section Corners
- Miris Corners
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Stream
- Intermittent Stream
- Lakes and Rivers



# Special Conservation Areas & Site Conditions Map

**Legend**

- Miris Corners
- Stand Boundaries
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)

**Site Condition Type**

**Available Factors W/ Constraints**

- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2B: Unknown if access through adjacent landowner(s) is possible

**Unavailable Factors**

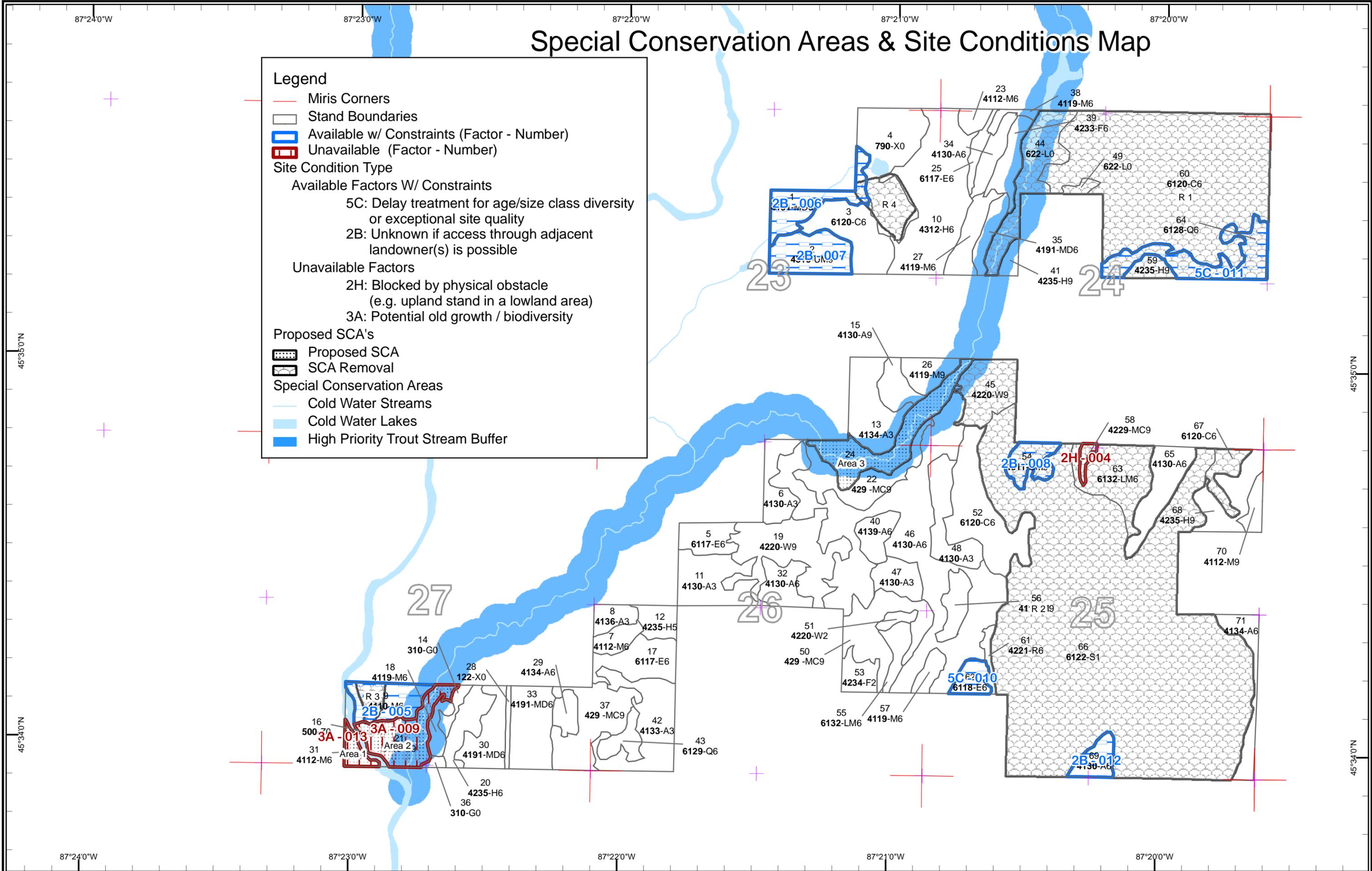
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Potential old growth / biodiversity

**Proposed SCA's**

- Proposed SCA
- SCA Removal

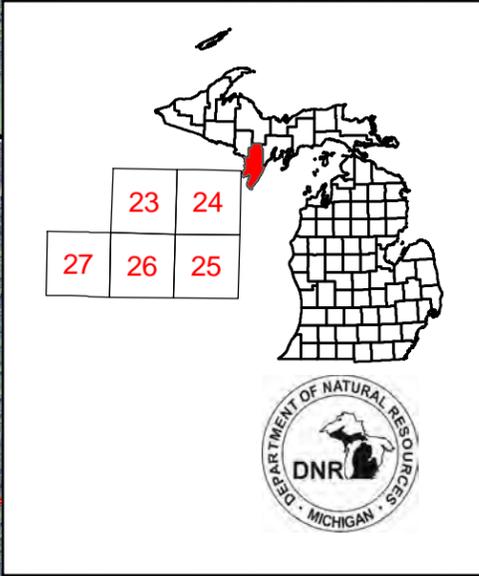
**Special Conservation Areas**

- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



# Stand Boundary Map

Compartment: 034  
 T37N R25W Sec. 23-27  
 County: Menominee  
 Unit: Escanaba  
 YOE: 2016  
 Acres: 1,475 GIS Calculated  
 Examiner: Dan Racine  
 Map Revised: 05/16/2014  
 Map Phase: Pre-Review



Stand #	Stocking Density
23	(412)0 - A7
	Level 3 OI
	Level 4 Code
<b>Cover Type Code</b>	

## Legend

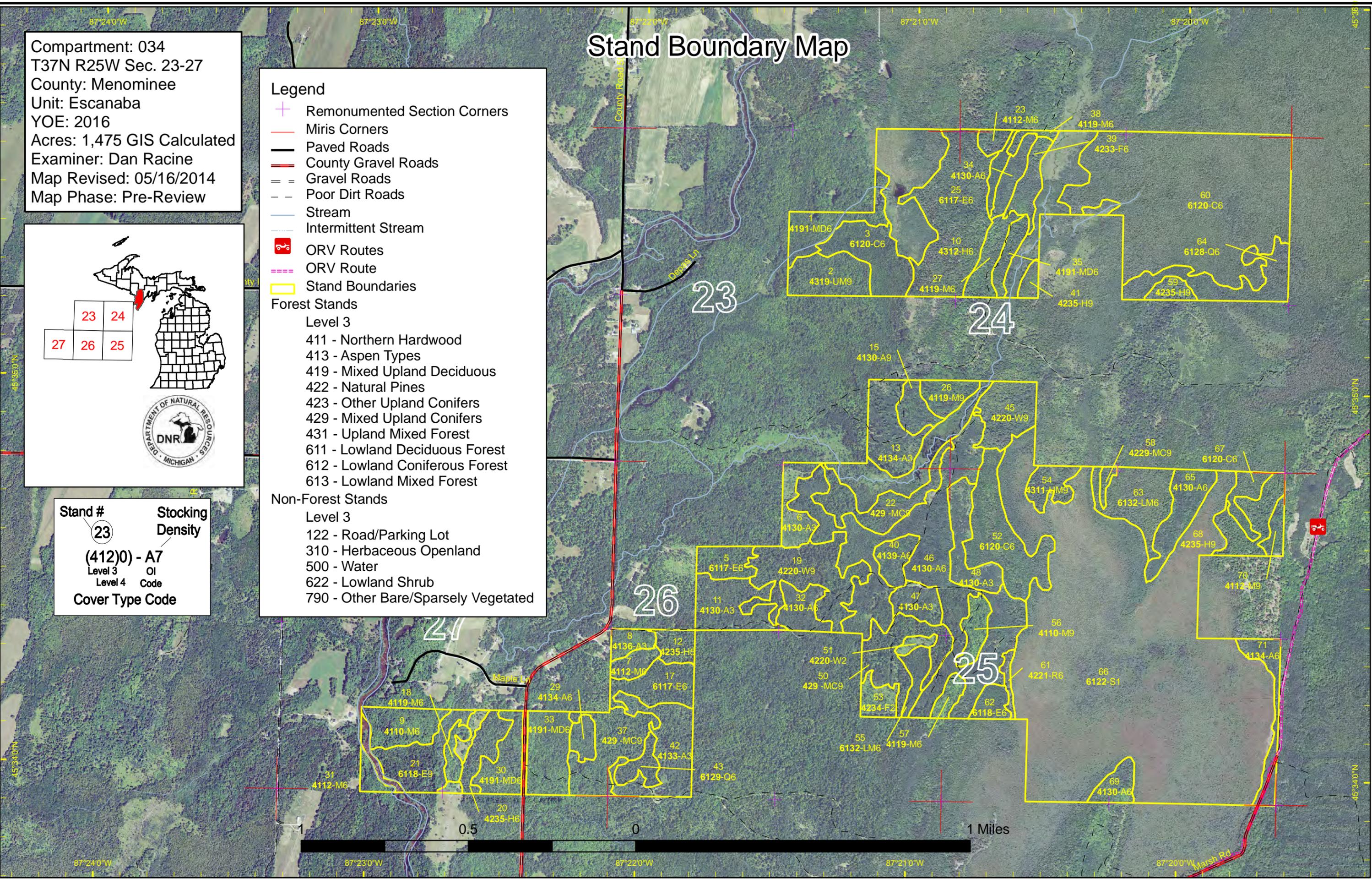
- + Remonumented Section Corners
- Miris Corners
- Paved Roads
- County Gravel Roads
- = Gravel Roads
- - Poor Dirt Roads
- Stream
- - Intermittent Stream
- + ORV Routes
- - - ORV Route
- Stand Boundaries

## Forest Stands

- Level 3
- 411 - Northern Hardwood
  - 413 - Aspen Types
  - 419 - Mixed Upland Deciduous
  - 422 - Natural Pines
  - 423 - Other Upland Conifers
  - 429 - Mixed Upland Conifers
  - 431 - Upland Mixed Forest
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
  - 613 - Lowland Mixed Forest

## Non-Forest Stands

- Level 3
- 122 - Road/Parking Lot
  - 310 - Herbaceous Openland
  - 500 - Water
  - 622 - Lowland Shrub
  - 790 - Other Bare/Sparsely Vegetated



Report 1 – Total Acres by Cover Type and Age Class



	Age Class														Total
	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 +	Uneven Age	
Aspen	11	53	47	28	122	24	7	0	0	0	0	0	0	0	293
Bare/Sparsely Vegetated	34	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Cedar	0	0	0	0	0	0	0	0	0	7	0	172	33	0	213
Hemlock	0	0	0	0	0	0	0	0	0	5	79	11	0	0	95
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Conifers	0	0	0	0	0	0	0	7	0	0	0	23	0	0	30
Lowland Deciduous	0	0	0	0	0	0	0	0	50	6	0	0	0	0	56
Lowland Mixed Forest	0	0	0	0	0	0	0	0	6	0	0	24	0	0	30
Lowland Shrub	51	0	0	0	0	0	0	0	0	0	0	0	0	0	51
Lowland Spruce/Fir	0	0	0	0	0	361	0	0	0	0	0	0	0	0	361
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	57	0	0	0	0	0	57
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
Northern Hardwood	0	0	0	0	0	0	0	39	35	0	0	0	0	0	74
Red Pine	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
Upland Conifers	0	0	0	0	0	0	0	0	0	20	48	0	0	0	68
Upland Mixed Forest	0	0	0	0	0	0	0	0	18	0	9	0	0	0	27
Upland Spruce/Fir	0	7	0	0	10	0	0	0	0	0	0	0	0	0	17
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
White Pine	0	3	0	0	0	0	0	0	0	18	0	34	0	0	55
<b>Total</b>	<b>106</b>	<b>62</b>	<b>47</b>	<b>28</b>	<b>132</b>	<b>385</b>	<b>10</b>	<b>45</b>	<b>167</b>	<b>58</b>	<b>137</b>	<b>264</b>	<b>33</b>	<b>0</b>	<b>1475</b>



## Report 2 – Proposed Treatment Summaries

**Escanaba Mgt. Unit**  
**Year of Entry 2016**

**Compartment 034**  
**Total Compartment Acres: 1,475**

### Acres by Treatment Type

Commercial Harvest - 386    Tree Planting - 0    Other - 0  
 Habitat Cut - 0    Opening Maintenance - 4

### Cover Type by Harvest Method

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
<b>Aspen Types</b>	32	0	0	0	0	0	<b>32</b>
<b>Lowland Coniferous Forest</b>	0	0	7	0	0	0	<b>7</b>
<b>Lowland Deciduous Forest</b>	26	0	0	4	0	0	<b>30</b>
<b>Lowland Mixed Forest</b>	3	0	0	0	0	0	<b>3</b>
<b>Mixed Upland Conifers</b>	0	0	0	44	0	0	<b>44</b>
<b>Mixed Upland Deciduous</b>	57	0	0	0	0	0	<b>57</b>
<b>Natural Pines</b>	0	0	0	57	0	0	<b>57</b>
<b>Northern Hardwood</b>	14	31	0	0	5	0	<b>49</b>
<b>Other Upland Conifers</b>	0	0	0	0	16	10	<b>26</b>
<b>Upland Mixed Forest</b>	27	53	0	0	0	0	<b>80</b>
<b>Total</b>	<b>159</b>	<b>84</b>	<b>7</b>	<b>106</b>	<b>21</b>	<b>10</b>	<b>386</b>



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
5	33034005-Cut	9.8	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	83		Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves- Cut all trees except leave a retention area in the heaviest hemlock area. Outside the retention leave some pine and										
<u>Specs:</u> spruce seed trees and all the hemlock.										
<u>Other</u> The hemlock is 20% of the canopy cover type.										
<u>Comments:</u>										
<u>Next</u> Monitor the regeneration at appropriate intervals.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
10	33034010-Cut	53.0	4312 - Hemlock, Mixed Deciduous	High Density Pole	100	111-140	Harvest	Group Selection	4312 - Hemlock, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> Group selection- Cut all trees except the hemlock and cedar, leave pine and spruce seed trees. Leave retention areas around the heaviest										
<u>Specs:</u> pockets of hemlock at approximately 10-20% of the stand, mostly through the center of the stand.										
<u>Other</u> This harvest will create gaps with some canopy retention areas of hemlock and scattered hemlock and pine left throughout. The start date will be										
<u>Comments:</u> 10/1/2014 with the stands to the north in compartment 33.										
<u>Next</u> Monitor the regeneration at appropriate intervals.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
15	33034015-Cut	8.0	4130 - Aspen	High Density Log	56		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves- Leave a retention strip along the south boundary line. Leave all the hemlock and some spruce seed trees.										
<u>Specs:</u>										
<u>Other</u> The hemlock is a trace of the canopy cover type.										
<u>Comments:</u>										
<u>Next</u> Monitor the regeneration at appropriate intervals.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
17	33034017-Cut	15.8	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	83	141-170	Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves- Leave all the cedar, hemlock, beech as well as a few pine seed trees. Leave a retention area along the boundary line.										
<u>Specs:</u>										
<u>Other</u> The cedar cover type is approximately 10% of the canopy cover type. The hemlock is approximately 10% of the canopy cover type.										
<u>Comments:</u>										
<u>Next</u> Monitor the regeneration at appropriate intervals.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
18	33034018-Cut	5.0	4119 - Mixed Northern Hardwoods	High Density Pole	83	81-110	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves- Harvest all trees except hemlock. Leave a retention strip along the western line of the bluff edge.										
<u>Specs:</u>										
<u>Other</u> There is very high amounts of balsam fir regeneration in some places. The hemlock is approximately 5% of the canopy cover type.										
<u>Comments:</u>										
<u>Next</u> Monitor the regeneration at appropriate intervals.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
19	33034019-Cut	34.2	42200 - Natural White Pine	High Density Log	118	81-110	Harvest	Shelter Wood with Reserves	429 - Mixed Upland Conifers	Cmpt. Review Proposal
<u>Prescription</u> Shelterwood seed tree with reserves- Leave scattered seed trees of white pine, red pine, and spruce throughout the stand and leave all cedar and hemlock. Leave retention patches in the areas with high to very high amounts of regeneration.										
<u>Specs:</u>										
<u>Other</u> There is 5% of the canopy as cedar cover type and some hemlock along the boundary line.										
<u>Comments:</u>										
<u>Next</u> Monitor the regeneration at appropriate intervals.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
22	33034022-Cut	19.6	429 - Mixed Upland Conifers	High Density Log	96		Harvest	Shelterwood	429 - Mixed Upland Conifers	Cmpt. Review Proposal
<u>Prescription</u> Shelterwood seed tree harvest- Leave all the hemlock and cedar, and leave pine seed trees throughout. The residual BA will be approximately 30-40 BA.										
<u>Specs:</u>										
<u>Other</u> The hemlock is 5% and the cedar is 2% of the canopy cover type.										
<u>Comments:</u>										
<u>Next</u> Monitor the regeneration at appropriate intervals.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
25	33034025-Cut	4.2	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	82	81-110	Harvest	Shelter Wood with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<u>Prescription</u> Shelterwood with reserves- Cut all the ash 6 inches and greater. Leave all the yellow birch, cedar, and hemlock.										
<u>Specs:</u>										
<u>Other</u> The start date will be 10/1/2014 to be treated along with the stands in compartment 33 to the north. The best access is from the landowner to the southwest with potential access through the landowner to the northwest.										
<u>Comments:</u>										
<u>Next</u> Monitor the regeneration at appropriate intervals.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
26	33034026-Cut	8.7	4119 - Mixed Northern Hardwoods	High Density Log	83	111-140	Harvest	Clearcut with Reserves	4113 - R.Maple, Conifer	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves- Leave all the hemlock and some spruce seed trees. Retention along the south boundary line. Pocket of more sugar maple to the north and at time of sale prep decide whether to split out a unit and selective harvest.										
<u>Specs:</u>										
<u>Other</u> The hemlock is approximately 3% of the canopy cover type.										
<u>Comments:</u>										
<u>Next</u> Monitor the regeneration at appropriate intervals.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
30 33034030-Cut	14.3	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	83		Harvest	Clearcut with Reserves	4113 - R.Maple, Conifer	Cmpt. Review Proposal

Prescription Specs: Clearcut with reserves- Cut all trees except leave the cedar, pine, hemlock and yellow birch. Leave a retention area on the south end where the hemlock and pine is along county road 551.

Other Comments: The stand is along county road 551. The cedar, pine, yellow birch and hemlock is 12% of the canopy cover type.

Next Steps: Monitor the regeneration at appropriate intervals.

Proposed Start Date: 10/01/2015

33 33034033-Cut	20.2	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	83	111-140	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
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Prescription Specs: Clearcut with reserves- Leave the hemlock, cedar, and some pine seed trees. Leave a retention patch in an area with the highest hemlock volumes.

Other Comments: The hemlock is approximately 25% and the cedar is 5% of the canopy cover type.

Next Steps: Monitor the regeneration at appropriate intervals.

Proposed Start Date: 10/01/2015

34 33034034-Cut	7.9	4130 - Aspen	High Density Pole	56		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
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Prescription Specs: Clearcut with reserves- Cut all the trees except leave all cedar and leave a retention area along the edge of the boundary line.

Other Comments: The proposed start date will be 10/1/2014, harvesting these stands with compartment 33 to the north. Access through private with the best access from the landowner to the south and west and potentially from the northwest. There is no cedar in the canopy cover type with some along the edges of the stand.

Next Steps: Monitor the regeneration at appropriate intervals.

Proposed Start Date: 10/01/2014

35 33034035-Cut	6.6	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	84	81-110	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
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Prescription Specs: Clearcut with reserves- Cut all trees except cedar and hemlock and leave a retention area where the hemlock is. Leave a retention buffer along the east side along Degraeves creek of approximately 1/2 chain wide.

Other Comments: The start date will be 10/1/2014 to be included with the stands in compartment 33 to the north. The best access is from the private landowner to the southwest, with potential access from the landowner to the north and west. There are hemlock patches on the north 1/3 of the stand and the cedar is scattered and 5% of the canopy cover type.

Next Steps: Monitor the regeneration at appropriate intervals.

Proposed Start Date: 10/01/2014

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
37 33034037-Cut	24.9	429 - Mixed Upland Conifers	High Density Log	108		Harvest	Shelter Wood with Reserves	429 - Mixed Upland Conifers	Cmpt. Review Proposal
<u>Prescription</u> Seed tree/shelterwood with reserves- Leave all cedar and hemlock. Leave some white pine seed trees, leaving approximately 30-40 BA overall.									
<u>Specs:</u>									
<u>Other Comments:</u> The cedar is 5%, the hemlock is 25% of the canopy cover type.									
<u>Next Steps:</u> Monitor the regeneration at appropriate intervals.									
<u>Proposed Start Date:</u> 10/01/2015									

38 33034038-Cut	2.4	4119 - Mixed Northern Hardwoods	High Density Pole	78	81-110	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
<u>Prescription</u> Selection harvest- Retain approximately 70-80 BA, leaving all hemlock and focusing on removing the majority of the ash.									
<u>Specs:</u>									
<u>Other Comments:</u> The start date is 10/1/2014 treating this stand with compartment 33 to the north. The hemlock is approximately 5% of the canopy cover type.									
<u>Next Steps:</u> Monitor the regeneration at appropriate intervals.									
<u>Proposed Start Date:</u> 10/01/2015									

39 33034039-Cut	9.7	42330 - Upland Fir	High Density Pole	48		Harvest	Other - Specify in Comments	4319 - Mixed Upland Forest	Cmpt. Review Proposal
<u>Prescription</u> Salvage/Removal- Take out the mature balsam fir and red maple and protect the areas of younger red maple regeneration.									
<u>Specs:</u>									
<u>Other Comments:</u> The start date for this stand is 10/1/2014 and will be treated with the stands in compartment 33 to the north.									
<u>Next Steps:</u>									
<u>Proposed Start Date:</u> 10/01/2014									

40 33034040-Cut	8.4	4139 - Aspen, Mixed Deciduous	High Density Pole	59		Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves- Leave some pine for seed trees and retention along the boundary of the stand.									
<u>Specs:</u>									
<u>Other Comments:</u> The white pine is approximately 10% of the canopy cover type.									
<u>Next Steps:</u> Monitor the regeneration at appropriate intervals.									
<u>Proposed Start Date:</u> 10/01/2015									



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
43	33034043-Cut	6.8	6129 - Mixed Coniferous Lowland Forest	High Density Pole	72		Harvest	Seed Tree with Reserves	6129 - Mixed Coniferous Lowland Forest	Cmpt. Review Proposal
<u>Prescription</u> Seed tree with reserves- Leave pine and spruce seed trees throughout the stand with the majority pine. Leave retention of the areas that have										
<u>Specs:</u> the highest amount of existing regeneration.										
<u>Other</u> Expect mixed conifer and aspen, red maple regeneration. This stand has areas of very high densities of existing regeneration.										
<u>Comments:</u>										
<u>Next</u> Monitor the regeneration at appropriate intervals.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
45	33034045-Cut	18.3	42200 - Natural White Pine	High Density Log	96		Harvest	Shelter Wood with Reserves	429 - Mixed Upland Conifers	Cmpt. Review Proposal
<u>Prescription</u> Shelterwood seed tree harvest- Leave pine seed trees and all the cedar and hemlock. This will retain approximately 30-40BA throughout. Leave										
<u>Specs:</u> retention areas around the heaviest areas of regeneration and little overstory component.										
<u>Other</u> The hemlock is 20% and the cedar is 2% of the canopy cover type.										
<u>Comments:</u>										
<u>Next</u> Monitor the regeneration at appropriate intervals.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
55	33034055-Cut	3.3	6132 - Mixed Lowland Forest with Cedar	High Density Pole	84	141-170	Harvest	Clearcut with Reserves	6132 - Mixed Lowland Forest with Cedar	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves- Cut all trees except leave retention patches where cedar is the heaviest.										
<u>Specs:</u>										
<u>Other</u> The retention patches will be to the north end of the stand. Most of the cedar is to the north and is approximately 40% of the overall canopy										
<u>Comments:</u> cover type.										
<u>Next</u> Monitor the regeneration at appropriate intervals.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
56	33034056-Cut	8.1	4110 - Sugar Maple Association	High Density Log	76	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription</u> Selection harvest- Retain approximately 70-80 BA. Create canopy gaps to try and establish maple regeneration. Leave the hemlock and favor										
<u>Specs:</u> to leave the ironwood along the edge of the stand.										
<u>Other</u> Nice hardwood stand. Priority of enhancing the existing stand quality.										
<u>Comments:</u>										
<u>Next</u> Monitor the regeneration at appropriate intervals focusing on the success of hardwood regeneration.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
57 33034057-Cut	4.7	4119 - Mixed Northern Hardwoods	High Density Pole	76	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal

Prescription Selection harvest- Retain approximately 70-80 BA leaving all the hemlock. Create canopy to establish maple regeneration.

Specs:

Other Favor to create larger canopy gaps of 60+ feet for the maple regeneration.

Comments:

Next Monitor the regeneration at appropriate intervals.

Steps:

Proposed

Start Date: 10/01/2015

61 33034061-Cut	2.6	42210 - Natural Red Pine	High Density Pole	64		Harvest	Shelterwood	4221 - Natural Red Pine	Cmpt. Review Proposal
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Prescription Shelterwood seed tree harvest- Leave pine seed trees throughout the stand retaining approximately 30-40 BA to provide for overstory cover for existing regeneration.

Specs:

Other High regeneration of pine with the majority white pine in the understory. The overstory is 90% red pine and 10% white pine.

Comments:

Next Monitor the regeneration at appropriate intervals.

Steps:

Proposed

Start Date: 10/01/2015

68 33034068-Cut	16.2	42350 - Upland Hemlock	High Density Log	106	141-170	Harvest	Crown Thinning	4312 - Hemlock, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Thinning- Retain approximately 60-70BA in the areas that are more to hardwood and 140BA in the areas that are heaviest to hemlock.

Specs:

Other The hemlock is approximately 60% of the canopy cover type.

Comments:

Next

Steps:

Proposed

Start Date: 10/01/2015

70 33034070-Cut	4.8	4112 - Maple, Beech, Cherry Association	High Density Log	84	81-110	Harvest	Crown Thinning	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
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Prescription Thinning- Retain approximately 70-80BA and remove only those hemlock that are necessary for harvest.

Specs:

Other The hemlock is approximately 20% of the canopy cover type.

Comments:

Next Monitor the regeneration at appropriate intervals.

Steps:

Proposed

Start Date: 10/01/2015



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
14 NF_33034014-NonFor	3.2	3102 - Grass				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal

Prescription: Opening enhancement. Cut brush and encroaching tree species, mow, herbicide, lime, fertilize, plant both annual and perennial herbaceous plants as well as hard/soft mast producers within the opening boundaries for the benefit of both game and non-game species.

Other Comments:

Next Steps: Create an FTP and yearly maintenance.

Proposed Start Date: Unspecified

36 NF_33034036-NonFor	1.3	3102 - Grass				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal
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Prescription: Opening enhancement. Cut brush and encroaching tree species, mow, herbicide, lime, fertilize, plant both annual and perennial herbaceous plants as well as hard/soft mast producers within the opening boundaries for the benefit of both game and non-game species.

Other Comments:

Next Steps:

Proposed Start Date: Unspecified

**Total Treatment Acreage Proposed: 322.1**



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	33034001-Cut	16.1	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	84		Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Clearcut with reserves- Leave any cedar and hemlock and leave a buffer along the drainage area and creek that runs from southwest to northeast.</p> <p><u>Other Comment:</u> This stand is limited factor due to access with no roads through the private and blocked by Degraeves creek to the west and the lowland brush and cedar swamp to the east. The cedar is 5 and the hemlock is 5% approximately of the canopy cover type.</p> <p><u>Next Steps:</u> Monitor the regeneration at appropriate intervals.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p> <p><u>Limiting Factor</u> 2B: Unknown if access through adjacent landowner(s) is possible</p>										
2	33034002-Cut	18.2	4319 - Mixed Upland Forest	High Density Log	83	141-170	Harvest	Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Clearcut with reserves- Cut all the trees except leave some pine and spruce seed trees, leave all cedar, and leave a retention patch where the hemlock volumes are the heaviest.</p> <p><u>Other Comment:</u> This stand is limited factor due to access through private with no roads and blocked by the cedar swamp the east and Degraeves creek. The hemlock is approximately 15% and the cedar is 5% of the canopy cover type.</p> <p><u>Next Steps:</u> Monitor the regeneration at appropriate intervals.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p> <p><u>Limiting Factor</u> 2B: Unknown if access through adjacent landowner(s) is possible</p>										
9	33034009-Cut	15.5	4110 - Sugar Maple Association	High Density Pole	78	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Selection harvest- Retain approximately 70-80 BA. Leave a 100 foot buffer along the Cedar River.</p> <p><u>Other Comment:</u> The best access is from the private landowner to the north. Limited factor due to private access.</p> <p><u>Next Steps:</u> Monitor the regeneration at appropriate intervals.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p> <p><u>Limiting Factor</u> 2B: Unknown if access through adjacent landowner(s) is possible</p>										
54	33034054-Cut	9.1	4311 - Pine, Aspen Mix	High Density Log	103		Harvest	Clearcut	4311 - Pine, Aspen Mix	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Clearcut- Cut all trees except leave pine seed trees throughout.</p> <p><u>Other Comment:</u> Limited factor due to access and blocked by surrounding stand 64.</p> <p><u>Next Steps:</u> Monitor the regeneration at appropriate intervals.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p> <p><u>Limiting Factor</u> 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</p>										



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
58 33034058-Cut1	2.1	42290 - Natural Mixed Pine	High Density Log	96		Harvest	Shelterwood	429 - Mixed Upland Conifers	Cmpt. Review Proposal

Prescription Specs: Shelterwood seed tree harvest- Retain approximately 20-30 BA of pine seed trees throughout the stand providing cover for the existing regeneration.

Other Comment: The stand is limited factor. Access will have to be granted by the landowner to the north and potentially a road built through private. A portable bridge may be needed to cross the Degraeves creek.

Next Steps: Monitor the regeneration at appropriate intervals.

Proposed Start Date: 10/01/2015

Limiting Factor 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)

69 33034069-Cut	7.4	4130 - Aspen	High Density Pole	60		Harvest	Clearcut	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
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Prescription Specs: Clearcut the aspen portion of the stand retaining the cedar and hemlock, and retaining most of the beech and white pine. In the M6 portion of the stand selection harvest retaining approximately 70-90 BA overall and all the cedar and hemlock. In the M6 portion retain most of the beech and white pine.

Other Comment: This stand is limited factor due to unknown access through private property to the south. This stand was originally prescribed as an out of entry and will be included with stands in compartment 35 to the south.

Next Steps: Monitor the regeneration at appropriate intervals.

Proposed Start Date: 10/01/2014

Limiting Factor 2B: Unknown if access through adjacent landowner(s) is possible

**Total Treatment Acreage Proposed: 68.4**

## Report 5 – Site Conditions

Escanaba Mgt. Unit  
Dan Racine : Examiner

Compartment 034  
Year of Entry 2016

### Availability for Management

Total Acres	Acres			Dominant Site Conditions				
	Available	Not Available		No	5C	3A	2H	2B
293	293		<b>Aspen</b>	285				7
213	213		<b>Cedar</b>	213				
95	95		<b>Hemlock</b>	95				
30	30		<b>Lowland Conifers</b>	7	23			
56	36	20	<b>Lowland Deciduous</b>	30	6	20		
30	30		<b>Lowland Mixed Forest</b>	30				
361	361		<b>Lowland Spruce/Fir</b>	361				
57	57		<b>Mixed Upland Deciduous</b>	41				16
2		2	<b>Natural Mixed Pines</b>				2	
74	70	4	<b>Northern Hardwood</b>	54		4		15
3	3		<b>Red Pine</b>	3				
68	68		<b>Upland Conifers</b>	68				
27	27		<b>Upland Mixed Forest</b>					27
17	17		<b>Upland Spruce/Fir</b>	17				
55	55		<b>White Pine</b>	55				
1,380	1,354	26	Total Forested Acres	1,258	29	24	2	66
	98%	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
004	<b>Not Available</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	2	No Limiting Factor			
<b>Comments:</b>							
005	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	16	No Limiting Factor			
<b>Comments:</b>							

## Report 5 – Site Conditions

Escanaba Mgt. Unit  
 Dan Racine : Examiner

Compartment 034  
 Year of Entry 2016

006	Available	2B: Unknown if access through adjacent landowner(s) is possible	16	2E: Road needed	
<b>Comments:</b>					
007	Available	2B: Unknown if access through adjacent landowner(s) is possible	18	2E: Road needed	
<b>Comments:</b>					
008	Available	2B: Unknown if access through adjacent landowner(s) is possible	9	No Limiting Factor	
<b>Comments:</b>					
009	Not Available	3A: Potential old growth / biodiversity	20		
<b>Comments:</b> Cedar River riparian corridor. The stand has small creek and draingages running to Cedar River.					
010	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6		
<b>Comments:</b>					
011	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23		
<b>Comments:</b>					

## Report 5 – Site Conditions

Escanaba Mgt. Unit  
Dan Racine : Examiner

Compartment 034  
Year of Entry 2016

012	Available	2B: Unknown if access through adjacent landowner(s) is possible	7
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**Comments:**

013	Not Available	3A: Potential old growth / biodiversity	4
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**Comments:**

This stand is along the Cedar River Riparian corridor.



## Report 6 – 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
<b>Area 1</b> <b>Comments</b> Edge of the River	Spring-Seeps, Riparian Areas	Riparian Area	<b>SCA</b>	4.1
<b>Area 2</b> <b>Comments</b>	Spring-Seeps, Riparian Areas	Riparian Area	<b>SCA</b>	19.7
<b>Area 3</b> <b>Comments</b>	Spring-Seeps, Riparian Areas	Riparian Area	<b>SCA</b>	24.5
<b>R 3</b> <b>Comments</b> PROPOSED OLD GROWTH	Potential Old Growth		<b>SCA Removal</b>	4.8
<b>R 4</b> <b>Comments</b> PROPOSED OLD GROWTH	Potential Old Growth		<b>SCA Removal</b>	13.1
<b>R 2</b> <b>Comments</b> Trace amount of black spruce in the overstory and red pine in the understory.	Potential Old Growth		<b>SCA Removal</b>	18.3
<b>R 1</b> <b>Comments</b> Island pocket of tamarack.	Potential Old Growth		<b>SCA Removal</b>	150.4



**Report 7 – 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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	16.1	84		This stand is a mix of upland/lowland with the combining the ash stand along the creek.
2	4319 - Mixed Upland Forest	High Density Log	18.2	83	141-170	Dead balsam fir. Other species include; yellow birch, white spruce.
3	6120 - Lowland Cedar	High Density Pole	21.8	111		There is a small ridge in the northeast portion with some maple/birch/spruce/hemlock/ and pine.
5	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	9.8	83		Separated out from stand pre-inventory stand 8. Pocket of maple, ash, hemlock, and white pine with some birch. Couple of pockets of black spruce to the east side of stand along pre-inventory 16.
6	4130 - Aspen	High Density Sapling	11.0	7		This stand was cut under the C34 done at last sale completed in 2007. All cedar, hemlock, and submerchantable spruce/fir were left.
7	4112 - Maple, Beech, Cherry Association	High Density Pole	6.0	83		Red maple mostly 7-9 inches dbh with scattered larger white pine, paper birch, q. aspen, and a few scattered spruce and hemlock. Trace amount of red pine and hemlock. Cut next treatment period.
8	4136 - Aspen, Mixed Conifer	High Density Sapling	5.9	17		This stand was cut under the Mack Spring block in 1997. All trees cut except cedar, hemlock, pine, beech, green painted trees and some pine were cut. Aspen stand with red maple and spruce/fir with some hemlock and white pine super canopy trees.
9	4110 - Sugar Maple Association	High Density Pole	15.5	78	111-140	Other species include hemlock, yellow birch, ash and cedar along the river. West portion of the stand is smaller pole timber and larger more logs to the east.
10	4312 - Hemlock, Mixed Deciduous	High Density Pole	53.0	100	111-140	Red maple on 10 of 11 plots with a dbh range of 8-12 inches. Hemlock on 11 of 11 plots with a dbh range of 8-12 inches. There is more species to be cut BA than hemlock BA on 7 of 11 plots. Trace amounts of black ash, white spruce, white pine and green ash.
11	4130 - Aspen	High Density Sapling	20.8	22		Aspen sapling stand cut in 1992 with some super canopy pine, spruce, and birch trees. The north end was separated into its own stand.
12	42350 - Upland Hemlock	Medium Density Pole	7.1	108		Cut in 1997 under the Mack spring block sale. All but cedar, hemlock, pine, and beech were cut. All spruce 7" and greater and orange marked pine were cut. High amount of understory with a mix of red maple, white pine, white spruce, balsam fir, and some aspen. Trace amounts of beech and cedar.
13	4134 - Aspen, Spruce/Fir	High Density Sapling	21.3	11		Mix of sap and pole. Scattered large pine left with several pockets of balsam fir/white spruce in overstory and understory. Trace amounts of balm, tamarack, cedar, and red pine.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	4130 - Aspen	High Density Log	8.0	56		Other species include white spruce, black cherry, hemlock. Dead and dying spruce and fir.
17	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	15.8	83	141-170	Cut under the Mack Spring Block in 1997. Trace amounts of white spruce in the overstory and black ash in the understory. Medium to High understory of white pine, white spruce, beech, and balsam fir.
18	4119 - Mixed Northern Hardwoods	High Density Pole	5.0	83	81-110	Other species include black cherry and balm to the north along the opening.
19	42200 - Natural White Pine	High Density Log	34.2	118	81-110	Basically a canopy of pine with mostly white pine and a mix of red pine, spruce, and some deciduous species. The understory is high regeneration with a mix of black spruce, balsam fir, white spruce, white pine and a few red maple and red pine. More red pine regen along the north edge of stand 31 but mostly white pine here.
20	42350 - Upland Hemlock	High Density Pole	10.5	110		Part of the C34 done at last sale that was completed as a thinning in 2008. All orange marked trees, balsam fir, aspen, and balm cut. Mixed upland/lowland site.
21	6118 - Lowland Deciduous with Cedar	High Density Log	19.7	83	111-140	Cedar/Hemlock/Ash to the east along the ridge and creek and west side along the Cedar River. Mostly Cedar and Hemlock on the north point. Areas predominate to Ash to the south and south east. Creek runs through the east and through the center bordered by Cedar River to the west. Silver Maple and sensitive fern toward the river and along the drainage through the stand.
22	429 - Mixed Upland Conifers	High Density Log	19.6	96		
23	4112 - Maple, Beech, Cherry Association	High Density Pole	3.8	78	81-110	Piece of hardwood with sugar maple, red maple, and other scattered species that will be treated with the stand to the north in compartment 33.
25	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	4.2	82	81-110	bottom of the ridge with black ash, cedar, some maple and birch on north end.
26	4119 - Mixed Northern Hardwoods	High Density Log	8.7	83	111-140	mix of a pole/log stand. Black cherry and beech here as well.
27	4119 - Mixed Northern Hardwoods	High Density Pole	10.8	84	51-80	The top part of the ridge is more sugar maple and as you move east more red maple vs sugar maple.
29	4134 - Aspen, Spruce/Fir	High Density Pole	5.4	38		Other species include black cherry and ash. Mix of red maple and aspen about 2-4 sticks tall with some super canopy white pine. 1976 year of origin.
30	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	14.3	83		More ash to the west and pockets of pine and hemlock. This stand was cut under the C34 done at last sale. Selective marking of maple and removal of aspen, balm.



Stand	Escanaba Mgt. Unit		Report 8 – Forested Stands			Compartment: 034 Year of Entry: 2016	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
31	4112 - Maple, Beech, Cherry Association	High Density Pole	4.1	78		Edge of the River	
32	4130 - Aspen	High Density Pole	10.5	35		The diameters for aspen are 4-7 inches with some super canopy white pine and red maple.	
33	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	20.2	83	111-140	Other species include paper birch, beech, black cherry.	
34	4130 - Aspen	High Density Pole	7.9	56		Variety of ages with the increment borer on most at 56 and cutting records in the 70's.	
35	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	6.6	84	81-110	Red maple and ash with small balsam fir and scattered cedar and spruce.	
37	429 - Mixed Upland Conifers	High Density Log	24.9	108		Other species include paper birch and balsam fir. No reliable age with increment borer on the white pine.	
38	4119 - Mixed Northern Hardwoods	High Density Pole	2.4	78	81-110	This stand was broken out from 38 for a selection area.	
39	42330 - Upland Fir	High Density Pole	9.7	48			
40	4139 - Aspen, Mixed Deciduous	High Density Pole	8.4	59		Some older and some younger aspen. Trace amount of paper birch in the overstory and beech in the understory.	
41	42350 - Upland Hemlock	High Density Log	3.2	106		Small patch of almost pure hemlock. Scattered pine. Red maple paper birch scattered throughout.	
42	4133 - Aspen, Mixed Pine	High Density Sapling	26.2	24		This stand was cut in 1992. Overall between the understory and overstory component this stand is a 50/50 mix of pine and aspen with some other minor component species. Minor component of cedar, and tamarack.	
43	6129 - Mixed Coniferous Lowland Forest	High Density Pole	6.8	72		Heavy understory throughout most of the stand of white pine, black spruce, aspen, balsam fir, and some tamarack. Variable black spruce regeneration. Trace amounts of tamarack, red pine, and red maple understory.	
45	42200 - Natural White Pine	High Density Log	18.3	96		Trace amount of black spruce in the overstory and red pine in the understory.	
46	4130 - Aspen	High Density Pole	105.2	40		Aspen with scattered pine. Mix of ages with some 3-4 inch areas are more 6-7 inch areas. Look at next treatment period. Trace of black ash.	
47	4130 - Aspen	High Density Sapling	9.4	14		Cut under the partridge recovery sale, completed in 2000. Unit 2 cut all trees except pine and hemlock with some orange marked pine.	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
48	4130 - Aspen	High Density Sapling	16.0	14		Cut under the partridge recovery sale in 2000. All trees cut except pine and hemlock with some orange marked pine cut.
50	429 - Mixed Upland Conifers	High Density Log	23.1	106		Cut in 2000 under the partridge recovery sale. Wait 10 years and follow eastern hemlock guide for harvest.
51	42200 - Natural White Pine	Medium Density	2.6	14		Cut under the partridge recovery sale in 2000. Filling in with white pine, spruce, balsam and occasional hemlock, cedar and white pine. P/L sized pine left standing most is dead.
52	6120 - Lowland Cedar	High Density Pole	33.5	130		A ridge that runs through the center of the stand with mature red maple, balsam fir, spruce and scattered cedar and hemlock that is too small to break out.
53	42340 - Upland Spruce/Fir	Medium Density	7.0	14		Cut under the partridge recovery sale completed in 2000. White pine is 3-15, balsam fir 3-20 and pockets of aspen to the west.
54	4311 - Pine, Aspen Mix	High Density Log	9.1	103		Upland island
55	6132 - Mixed Lowland Forest with Cedar	High Density Pole	6.4	84	141-170	Pocket of cedar and other species on north end as you move south more ash, red maple, yellow birch, and less cedar.
56	4110 - Sugar Maple Association	High Density Log	8.1	76	111-140	Increment borer on an ash tree. Log/pole stand with mix of white pine, balsam fir, spruce, beech in understory. Trace amount of hemlock.
57	4119 - Mixed Northern Hardwoods	High Density Pole	4.7	76	111-140	East side is fringe of cedar, ash, red maple, aspen. Quality not as good as stand 55.
58	42290 - Natural Mixed Pine	High Density Log	2.1	96		Large red pine and white pine with balsam fir in the understory. Aspen scattered throughout.
59	42350 - Upland Hemlock	High Density Log	4.8	92		Stand was thinned with white pine, balsam fir and maple removed.
60	6120 - Lowland Cedar	High Density Pole	150.4	111		Island pocket of tamarack.
61	42210 - Natural Red Pine	High Density Pole	2.6	64		Red pine log/pole stand.
62	6118 - Lowland Deciduous with Cedar	High Density Pole	6.1	94		Pockets where the cedar is heavy. Needs treatment next treatment period before A and P is gone and maple/birch is decent size.
63	6132 - Mixed Lowland Forest with Cedar	High Density Pole	23.7	111		Cedar with ash, red maple, paper birch. Better quality on east side near the ridge. Look to treat in 10 years.

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Escanaba Mgt. Unit

## Report 8 – Forested Stands

Compartment: 034  
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
64	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	23.1	111		Tamarack is dying or dead. Ash is submerchantable. Cedar is in patches.
65	4130 - Aspen	High Density Pole	16.9	41		Aspen with patches of hemlock, cedar, and pine. Pine is dying with 18-24" dbh.
66	6122 - Black Spruce	Low Density Sapling	360.7	50		Some open areas mixed of treed bog and 25-30% canopy. Mix of black spruce and more tamarack to the north end. Very poor quality stand. Trace amounts of tag alder and holly in the understory.
67	6120 - Lowland Cedar	High Density Pole	7.3	96		Very poor quality stand. Lots of 3-5 inch maple and ash.
68	42350 - Upland Hemlock	High Density Log	16.2	106	141-170	Stand was thinned previously.
69	4130 - Aspen	High Density Pole	7.4	60		Not accessible and private to the south with no accessibility.
70	4112 - Maple, Beech, Cherry Association	High Density Log	4.8	84	81-110	Upland northern hardwood stand with hemlock.
71	4134 - Aspen, Spruce/Fir	High Density Pole	12.4	30		Along the 7 mile marsh road with trace of red pine in overstory. Maybe next treatment period.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
4	790 - Other Bare/Sparsely Vegetate	34.2	No	Unspecified	
14	3102 - Grass	3.2	Unspecified	Unspecified	
16	50 - Water	3.5	No	Unspecified	
24	6229 - Mixed lowland shrub	24.5	No	Unspecified	
28	122 - Road/Parking Lot	2.3	Unspecified	Unspecified	
36	3102 - Grass	1.3	Unspecified	Unspecified	
44	6229 - Mixed lowland shrub	24.5	No	Unspecified	
49	6229 - Mixed lowland shrub	2.0	No	Unspecified	