



# Compartment Review Presentation

Escanaba Forest Management Unit

Compartment: 41

Entry Year: 2015

Acreage: 1,156

County: Menominee

Management Area: Green Bay Lake Plain

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**Revision Date:** 06/12/2013

**Stand Examiner:** Dustin Salter

**Legal Description:**

T36N R25W Sections 10 and 15

**Identified Planning Goals:**

This compartment is comprised primarily of three different cover types. They are natural red pine, poor quality red maple, and black spruce. The majority of the pine is nearly ninety years old and is mature. These stands are ready to be regenerated, seven of these stands are prescribed for treatment. These stands will be seed tree cut, than will be followed up with mechanical scarification to expose bare mineral soil to facilitate red pine regeneration. One of the other primary cover types is poor quality red maple. This cover type is mixed with ash, balsam fir, spruce, aspen, and pine. Six of these stands are prescribed for a clearcut. The maple will be regenerated via stump sprouts. These stands will regenerate to a mix of maple, ash, aspen, spruce/fir, and pine. The last primary cover type is black spruce. There are two of these stands prescribed for a seed tree cut. These stands will be managed for black spruce, but a mix of red and white pine will also regenerate. Three lowland deciduous stands will also be clearcut. These stands will be managed for a mix of maple, ash, and mixed conifer.

**Soil and topography:**

This primary soil series in this compartment are Deford Mucky Fine Sand, Tawas-Deford Complex, and Deford-Wainola-Rousseau Complex. This stand is a mix of poorly drained black muck over fine sand and well drained sand. The topography is level with some gently rolling terrain.

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

This compartment is part of a large block of state land that is about 25 miles long and 7 miles wide along the Lake Michigan shoreline. Small private land holdings are scattered within this block. Land use is mixed on state forest land and largely recreational on private in-holdings. Most of the land adjacent to compartment 41 is state owned. Private land is located in the W ½ NW ¼ of Section 10.

**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:**

None present.

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:**

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

Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Trenton Formation underlies the glacial drift and is quarried for stone west of Escanaba. This area has not been leased previously. A gravel pit is located in the SE corner of Section 12 (#421) and there could be some potential on the uplands. No economic oil and gas production has been found in the UP.

**Vehicle Access:**

County Road 551 follows the west edge of the compartment, and Co. Rd. 551 and the North Fox Road is on the south edge of the compartment. Most stands are accessible via existing roads and trails, however, many stands can only be accessed during winter months due to wet soils.

**Survey Needs:**

A few registered corners will need to be set in order to prepare prescribed timber.

**Recreational Facilities and Opportunities:**

The Forest Islands ORV trail traverses the west half of Section 10. Loop #3 of the Cedar River Pathway traverses Section 15 and the very southern portion of Section 10. This compartment is used primarily for recreation and hunting.

**Fire Protection:**

There is limited access for fire equipment into the compartment. Much of the compartment has lowland soils or hardwood timber type that is not prone to fire. But there are a number of large red pine and white pine stands also present. The majority of these stands are over 80 years of age, so they are very fire sturdy. So the majority of them would only support surface fires. A number of these mature pine stands are scheduled for harvest this entry period, so there will be heavy fuel loads for a few years following harvest. There are no adequate water resources within the compartment, but the Big Cedar River is within a quarter of a mile from the west edge of the compartment.

**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**

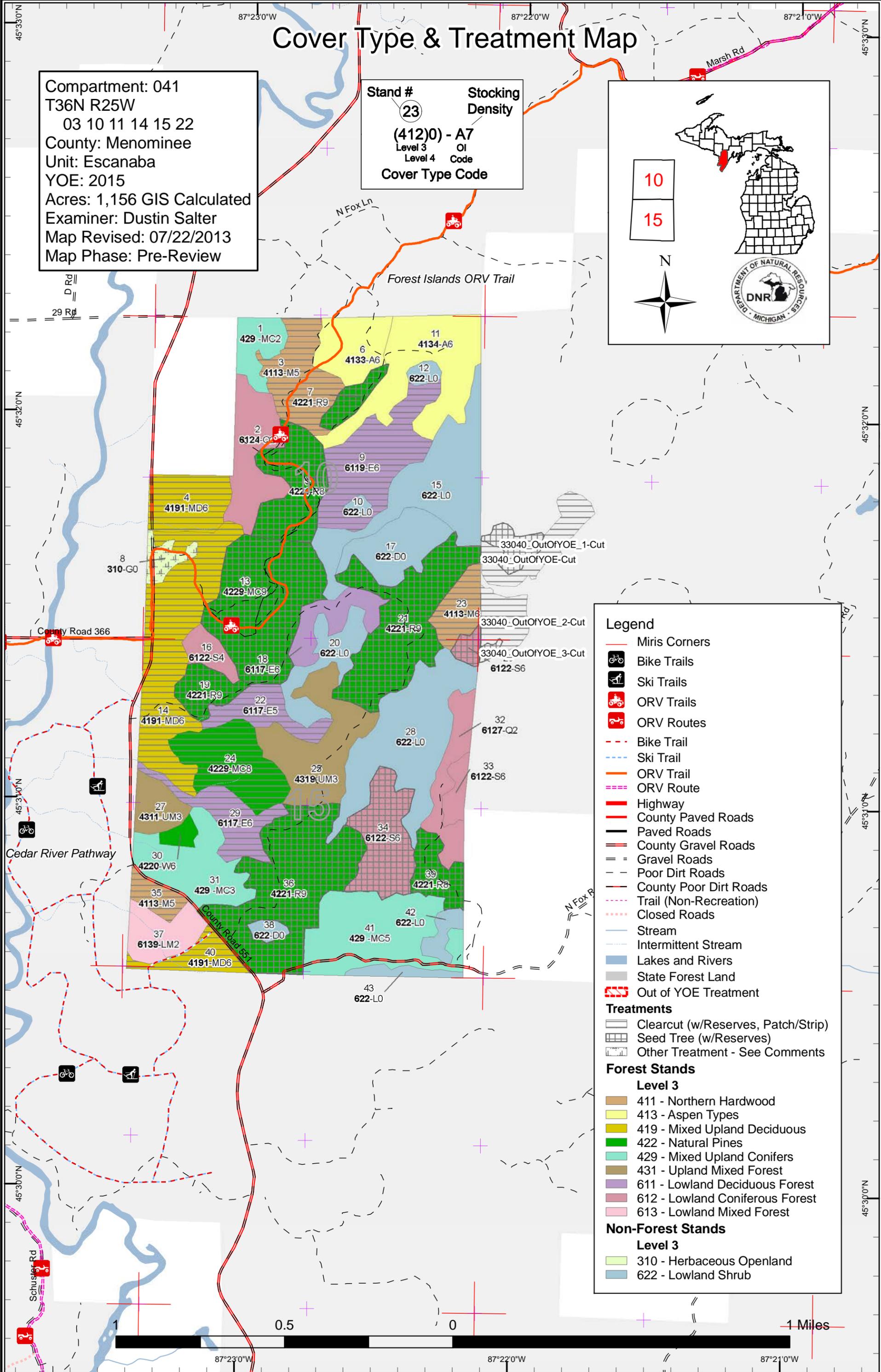
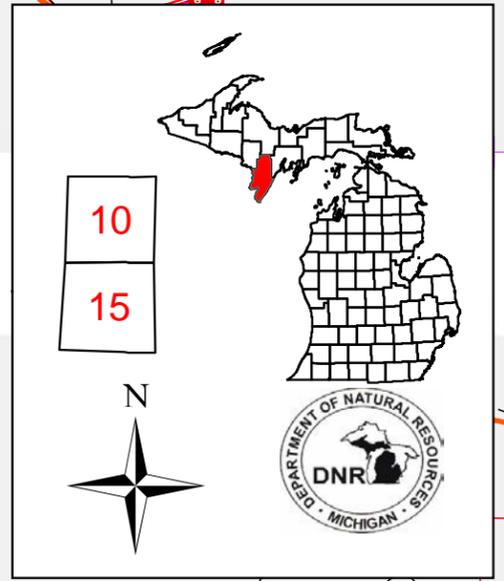
**The following information is displayed, where pertinent, on the attached compartment maps:**

- 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: 041  
 T36N R25W  
 03 10 11 14 15 22  
 County: Menominee  
 Unit: Escanaba  
 YOE: 2015  
 Acres: 1,156 GIS Calculated  
 Examiner: Dustin Salter  
 Map Revised: 07/22/2013  
 Map Phase: Pre-Review

**Stand #**  
 23  
**Stocking Density**  
 (412)0 - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**



**Legend**

- Miris Corners
- Bike Trails
- Ski Trails
- ORV Trails
- ORV Routes
- Bike Trail
- Ski Trail
- ORV Trail
- ORV Route
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land
- Out of YOE Treatment

**Treatments**

- Clearcut (w/Reserves, Patch/Strip)
- Seed Tree (w/Reserves)
- Other Treatment - See Comments

**Forest Stands**

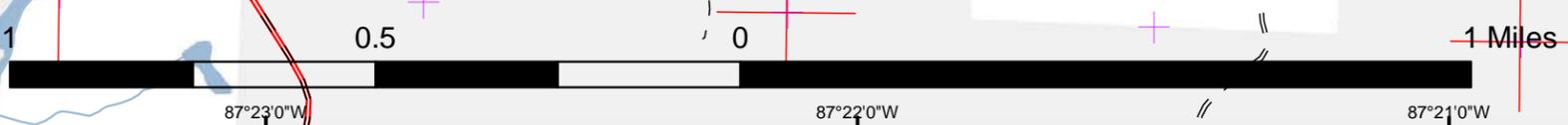
**Level 3**

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 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**

- 310 - Herbaceous Openland
- 622 - Lowland Shrub



# Stand Boundary Map

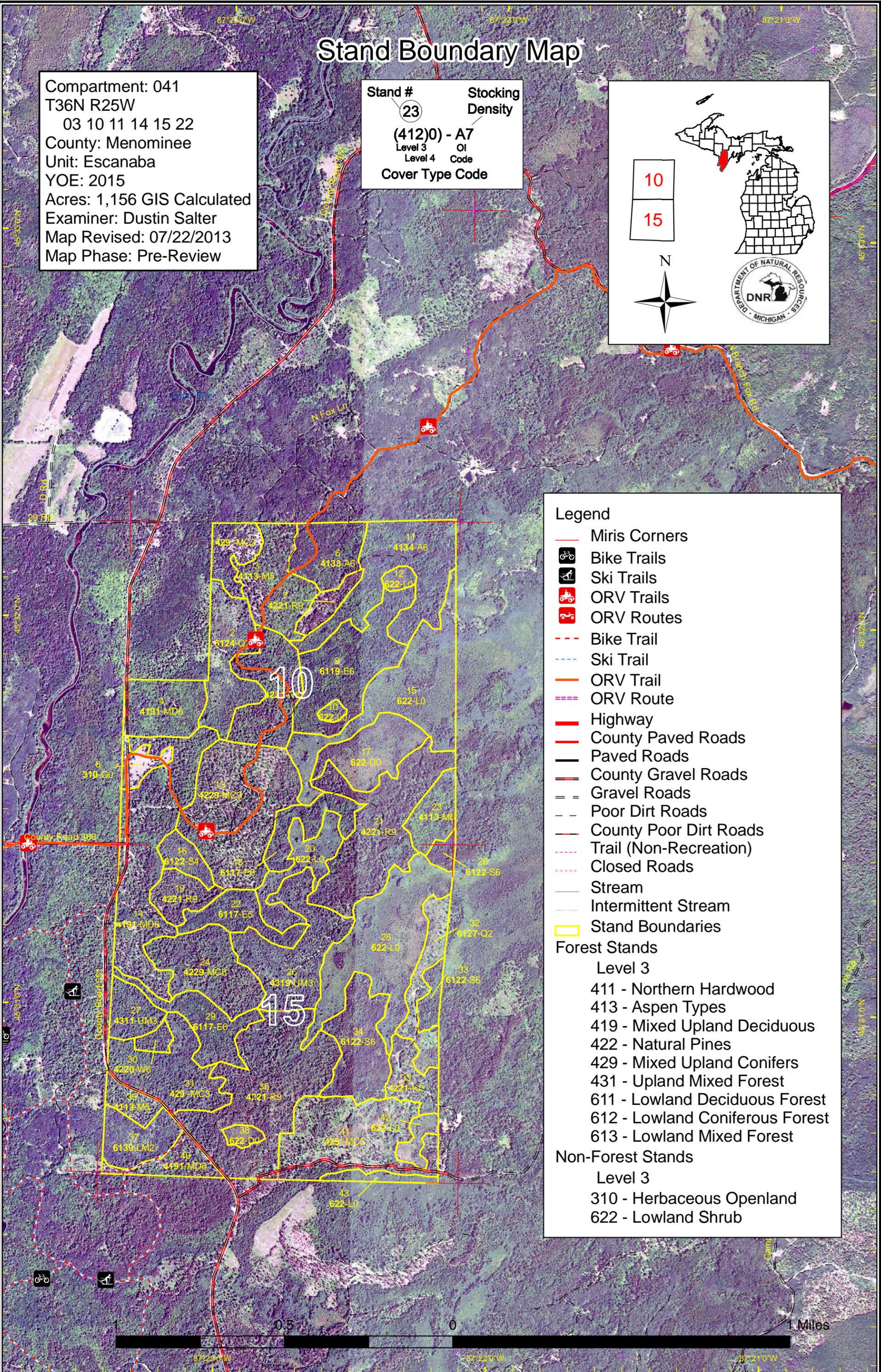
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 Acres: 1,156 GIS Calculated  
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 Map Phase: Pre-Review

**Stand #**  
 23  
**Stocking Density**  
 (412)0 - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**

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 DEPARTMENT OF NATURAL RESOURCES  
 DNR  
 MICHIGAN

## Legend

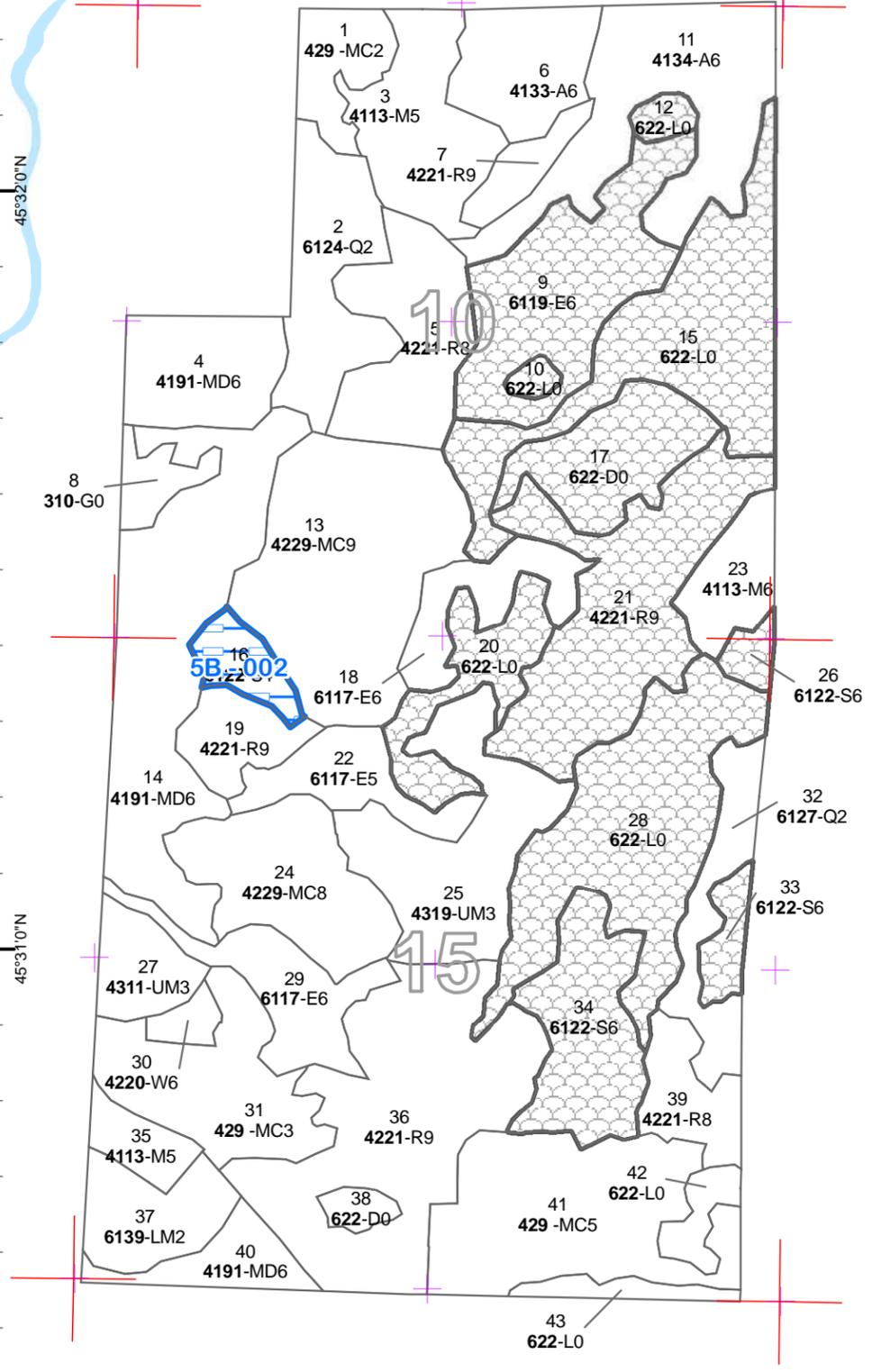
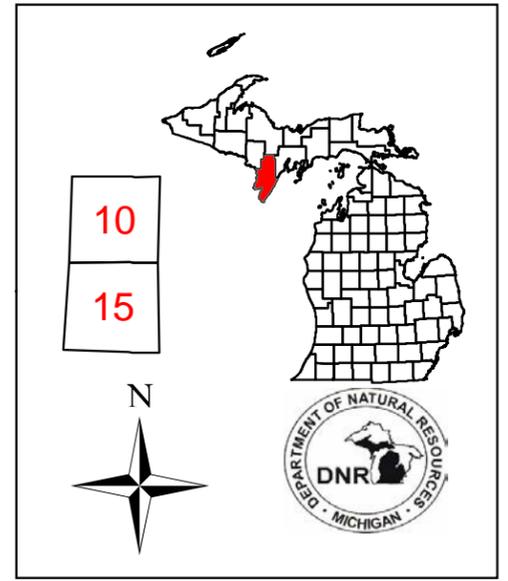
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  - ORV Routes
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  - Ski Trail
  - ORV Trail
  - ORV Route
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- Level 3
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# Special Conservation Areas & Site Conditions Map

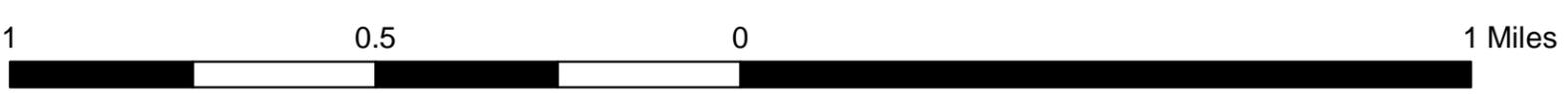
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**Stand #**  
 23  
**Stocking Density**  
 (412)0 - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**



**Legend**

- Miris Corners
- Stand Boundaries
- Site Condition Available
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)
- Site Condition Type
- Available Factors W/ Constraints
- 5B: Retention for regeneration purposes
- Reviewable SCAs
- Proposed SCA
- SCA Removal
- Dedicated Special Conservation Areas
- Cold Water Lakes



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	0	0	0	53	23	0	0	0	0	0	0	0	0	0	76
Herbaceous Openland	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Conifers	0	52	0	0	0	0	0	0	0	0	0	0	0	0	52
Lowland Deciduous	0	0	0	0	0	0	0	65	41	0	0	0	0	0	105
Lowland Mixed Forest	0	0	19	0	0	0	0	0	0	0	0	0	0	0	19
Lowland Shrub	163	0	0	0	0	0	0	0	0	0	0	0	0	0	163
Lowland Spruce/Fir	0	0	0	0	7	0	0	0	46	0	0	0	0	0	53
Mixed Upland Deciduous	0	0	0	0	0	0	0	25	83	0	0	0	0	0	108
Natural Mixed Pines	0	0	0	0	0	0	0	0	105	0	0	0	0	0	105
Northern Hardwood	0	0	0	0	0	0	0	15	40	0	0	0	0	0	55
Red Pine	0	0	0	0	0	0	0	0	195	15	0	0	0	0	210
Treed Bog	31	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Upland Conifers	0	0	36	14	0	0	0	0	57	0	0	0	0	0	108
Upland Mixed Forest	0	0	57	0	0	0	0	0	0	0	0	0	0	0	57
White Pine	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4
<b>Total</b>	<b>202</b>	<b>52</b>	<b>113</b>	<b>67</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>109</b>	<b>567</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1156</b>



## Report 2 – Proposed Treatment Summaries

**Escanaba Mgt. Unit**  
**Year of Entry: 2015**

**Compartment: 041**  
**Total Compartment Acres: 1,156**

### Acres by Treatment Type

Commercial Harvest - 603	Tree Planting - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 8	

### Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Lowland Coniferous Forest	0	0	37	0	0	0	37
Lowland Deciduous Forest	88	0	0	0	0	0	88
Mixed Upland Deciduous	108	0	0	0	0	0	108
Natural Pines	36	0	279	0	0	0	315
Northern Hardwood	55	0	0	0	0	0	55
<b>Total</b>	<b>287</b>	<b>0</b>	<b>316</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>603</b>

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
33040_OutOfY OE_1-Cut	18.4					Harvest	Clearcut with Reserves	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal
<u>Prescription Specs:</u> Clearcut with Reserves - Cut all trees greater than 4 inches; except leave all cedar and pine. The retention will be the cedar, pine, and advanced conifer regeneration. Manage this stand for a mix of maple, ash, aspen, and balsam fir, and spruce.									
<u>Other Comments:</u> Stand 9 in comp 40. Lowland deciduous stand that contains primarily red maple, ash, birch, and aspen. Treat this stand with the adjacent stands in comp 41.									
<u>Next Steps:</u> Regeneration Survey per work instructions.									
<u>Proposed Start Date:</u> 10/01/2014									
33040_OutOfY OE_2-Cut	13.7					Harvest	Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal
<u>Prescription Specs:</u> Clearcut with Reserves - Cut all merchantable stems; except leave all cedar, hemlock, and enough white pine to have 10% retention. This stand will be managed for spruce, red pine, and white pine primarily, but any combination of the current overstory species will be acceptable.									
<u>Other Comments:</u> Stands 7 and 8 in comp 40. This stand is almost two-aged there is a dense overstory of pine, spruce, maple, and birch primarily, with a thick understory of the same mix. The purpose of this harvest is to remove the overstory to release the advanced regeneration. Treat this stand with the adjacent stands in comp 41.									
<u>Next Steps:</u> Regeneration Survey per work instructions.									
<u>Proposed Start Date:</u> 10/01/2014									
33040_OutOfY OE_3-Cut	1.6					Harvest	Seed Tree with Reserves	42210 - Natural Red Pine	Cmpt. Review Proposal
<u>Prescription Specs:</u> Seed Tree with Reserves - Cut all trees greater than 4 inches; except mark some scattered red pine seed trees to retain. The red pine seed trees will be the retention. Leave less than 10 basal are of seed trees. This stand is being managed for red pine.									
<u>Other Comments:</u> Stand 5 in comp 40. High quality red pine stand, that should be managed for red pine. Ttreat this stand while the adjacent stands in comp 41 are being treated.									
<u>Next Steps:</u> If access is possible, scarify following the harvest to expose mineral soil. Regeneration Survey per work instructions.									
<u>Proposed Start Date:</u> 10/01/2014									
33040_OutOfY OE-Cut	9.0					Harvest	Seed Tree with Reserves	42210 - Natural Red Pine	Cmpt. Review Proposal
<u>Prescription Specs:</u> Seed Tree with Reserves - Cut all trees greater than 3 inches; except mark some pine and spruce seed trees to retain for seed and retention. More red pine seed trees should be left than white pine or spruce, but overall leave less than 10 basal area of seed trees. Manage this stand for red pine.									
<u>Other Comments:</u> Stand 11 of comp 40. Red pine stand with some lower areas that contain white pine and spruce. Treat this stand while harvesting the adjacent stands in comp 41.									
<u>Next Steps:</u> Following harvest, scarify this stand to expose mineral soil. Regeneration Survey per work instructions.									
<u>Proposed Start Date:</u> 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
3 33041003-Cut	31.5	4113 - R.Maple, Conifer	Medium Density Pole	83	51-80	Harvest	Clearcut with Reserves	4113 - R.Maple, Conifer	Cmpt. Review Proposal

Prescription Clearcut with Reserves - cut all trees greater than 3 inches; except mark enough pine to retain to provide an adequate seed source and 3% retention. In addition; leave all cedar and hemlock if present. The pine will be left scattered or in small clumps, but overall less than 10 basal area. This stand will be managed for red maple, aspen, and pine primarily.

Other Stand was cut on contract 031-05-01 in 2009. The aspen, spruce, balsam fir, and birch were cut out from the stand. The residual overstory is too dense to allow enough sunlight in to regenerate the stand. There are some aspen sprouts in the more open areas.

Next Steps: Regeneration Survey per work instructions.

Proposed Start Date: 10/01/2014

4 33041004-Cut	25.1	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	78	141-170	Harvest	Clearcut with Reserves	4113 - R.Maple, Conifer	Cmpt. Review Proposal
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Prescription Clearcut with Reserves - cut all species greater than 3 inches; except retain the white pine, red pine, hemlock, and cedar. Retaining all of these species will equal about 10% retention. This stand will be managed for primarily red maple and spruce/fir. The red maple will regenerate via stump sprouts primarily.

Other The center of this stand was thinned on contract 032-05-01 in 2008. There is no regeneration showing. Overall this stand is a poor quality red maple type. There is not enough quality stems within it to thin the stand. There is some cedar, white pine, and red pine within the stand, but none of them constitute 2%, But overall there is about 3%.

Next Steps: Regeneration Survey per work instructions.

Proposed Start Date: 10/01/2014

5 33041005-Cut	33.5	42210 - Natural Red Pine	Medium Density Log	87	51-80	Harvest	Seed Tree with Reserves	42211 - Natural Red Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Seed Tree with Reserves - Cut all pine greater than 5 inches, except mark some scattered red pine white pine for seed trees and retention. Cut all other species greater than 4 inches, except leave all hemlock and cedar if present. The retention will be the seed trees and advanced regeneration. Red pine is the desired species, but a mix with the other current species is acceptable.

Other Stand was last cut on contract 033-90-01 in 1993. All trees were cut; except pine, hemlock, and cedar and some other scattered seed trees. Some pine and hemlock was marked to cut. The areas of the stand that didn't have much overstory left, regenerated very well to a mix of red pine, white pine, spruce, balsam fir, and red maple. The overstory needs to be removed to release the regeneration around it. Where the stand was opened up there is a higher percentage of red pine seedlings, which is the desired regen. The residual overstory is very patchy. Some areas of the stand there are no stems and in other parts there is over 100 basal area.

Next Steps: In the areas of the stand that currently have a dense overstory and very little regeneration scarify after harvest to expose mineral soil to regenerate red pine. Regeneration Survey per work instructions.

Proposed Start Date: 10/01/2014

7 33041007-Cut	8.4	42210 - Natural Red Pine	High Density Log	87	81-110	Harvest	Seed Tree with Reserves	42210 - Natural Red Pine	Cmpt. Review Proposal
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Prescription Seed Tree with Reserves - Cut all species greater than 2 inches; except mark some scattered red pine seed trees to retain. In addition, leave all hemlock and cedar if present. Less than 10 basal area will be left. The seed trees will be the retention. Manage this stand for red pine.

Other Stand was last thinned on contract 031-05-01 in 2009. Pine was thinned and all aspen, maple, spruce, balsam fir, and birch were cut out. This stand needs to be harvested now, before there is too much advanced regeneration and we will not be able to regenerate red pine.

Next Steps: Following harvest scarify this stand to expose mineral soil. Regeneration Survey per work instructions.

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
9 33041009-Cut	47.4	6119 - Mixed Lowland Deciduous Forest	High Density Pole	79	81-110	Harvest	Clearcut with Reserves	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal

Prescription Clearcut with Reserves - Cut all trees greater than 4 inches; except designate some dense pockets/areas of cedar to retain. Also mark some spruce seed trees, where they are present. The stand will regenerate to a mix of ash, maple, and spruce/balsam fir. Retention will be the pockets of cedar, spruce seed trees, and advanced spruce/fir regeneration.

Other Comments: Lowland deciduous stand, with some more upland areas with red maple.

Next Steps: Regeneration Survey per work instructions.

Proposed Start Date: 10/01/2014

13 33041013-Cut	69.1	42290 - Natural Mixed Pine	High Density Log	87	51-80	Harvest	Seed Tree with Reserves	42210 - Natural Red Pine	Cmpt. Review Proposal
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Prescription Seed Tree with Reserves - Cut all trees greater than 3 inches; except mark some pine seed trees to retain for seed and retention. More red pine seed trees should be left than white pine, but overall leave less than 10 basal area of seed trees. Manage this stand for red pine.

Other Comments: Stand was thinned in 1993 and then again in 2008 on contract 032-05-01. The stand still has a dense overstory in most areas of the stand, which will enable shade tolerant species to seed in, but will discriminate against red pine. This stand is a very high quality red pine site and should be managed for it. Please consider adding trail consideration language such as: Keep trail unobstructed and clear of tops, limbs and woody debris, Avoid decking on the trail, Avoid skidding on the trail where possible and minimize skid crossings, insure that the trail remains in "as good" condition during and after the logging is complete, Other language that has been used in the past would work too.

Next Steps: Following harvest scarify this site to expose mineral soil. Regeneration Survey per work instructions.

Proposed Start Date: 10/01/2014

14 33041014-Cut	70.0	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	87	51-80	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
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Prescription Clearcut with Reserves - cut all trees greater than 3 inches; except retain all hemlock, cedar, and mark some red pine and white pine seed trees to retain. In addition, retain all sub-merchantable black ash. These trees will be the retention. This stand will be managed for a mix of red maple, aspen, spruce/fir, and pine. Any mix is acceptable.

Other Comments: This stand was cut on contract 032-05-01 in 2007-08. The western 1/3 rd of the stand had the aspen, spruce, balsam fir, and birch cut and the western 2/3 rds had the aspen and birch and maple over 9 inches cut. Overall this stand has too dense of an overstory to regenerate.

Next Steps: Regeneration Survey per work instructions.

Proposed Start Date: 10/01/2014

19 33041019-Cut	13.4	42210 - Natural Red Pine	High Density Log	87	141-170	Harvest	Seed Tree with Reserves	42210 - Natural Red Pine	Cmpt. Review Proposal
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Prescription Seed Tree with Reserves - Cut all trees greater than 4 inches; except mark some pine seed trees to retain for seed and retention. More red pine seed trees should be left than white pine, but overall leave less than 10 basal area of seed trees. In addition, leave all hemlock and cedar if present. Manage this stand for red pine.

Other Comments: This stand was last cut 22 years ago, which opened the stand up enough to allow areas of the stand to regenerate to a mix of upland conifer species, heavy to pine. There are some low pockets within the stand.

Next Steps: Following harvest scarify this site to expose mineral soil. Regeneration Survey per work instructions.

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
21 33041021-Cut	60.5	42210 - Natural Red Pine	High Density Log	87	81-110	Harvest	Seed Tree with Reserves	42210 - Natural Red Pine	Cmpt. Review Proposal

Prescription Seed Tree with Reserves - Cut all trees greater than 3 inches; except mark some pine seed trees to retain for seed and retention. More red pine seed trees should be left than white pine, but overall leave less than 10 basal area of seed trees. Leave a number of seed trees along the pathway to provide for signage and aesthetics. Manage this stand for red pine.

Other Comments: Remove the Old Growth/SCA Designation from this stand, this is not a unique stand or does it provide unique characteristics. Stand was last thinned in 1993. The Cedar River Pathway traverse through this stand. The stand still has a dense overstory in most areas of the stand, which has enabled some shade tolerant species to seed in, but will discriminate against red pine. This stand is a very high quality red pine site and should be managed for it. Please consider adding trail consideration language such as: Keep trail unobstructed and clear of tops, limbs and woody debris, Avoid decking on the trail, Avoid skidding on the trail where possible and minimize skid crossings, insure that the trail remains in "as good" condition during and after the logging is complete, Other language that has been used in the past would work too.

Next Steps: Following harvest, scarify this site to expose mineral soil. Avoid the thick patches of advanced regeneration when scarifying. Regeneration Survey per work instructions.

Proposed Start Date: 10/01/2014

22 33041022-Cut	18.0	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	87		Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
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Prescription Clearcut with Reserves - Cut all species greater than 4 inches; except mark to retain some spruce, tamarack, cedar, and white pine seed trees. These seed trees will make up the retention. Manage this stand for a mix of red maple, ash, spruce, and tamarack.

Other Comments: Poor quality lowland deciduous stand, that averages about 60 basal area. Stand is mostly a mix of red maple and ash. This stand should be harvested now while we are harvesting the adjacent stands and to salvage the ash prior to the arrival of EAB. By cutting this stand it will push it towards more maple, spruce, and tamarack.

Next Steps: Regeneration Survey per work instructions.

Proposed Start Date: 10/01/2014

23 33041023-Cut	15.1	4113 - R.Maple, Conifer	High Density Pole	73	51-80	Harvest	Clearcut with Reserves	4113 - R.Maple, Conifer	Cmpt. Review Proposal
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Prescription Clearcut with Reserves - Cut all hardwood and aspen greater than 4 inches and all conifers greater than 5 inches. Also mark some scattered pine seed trees to retain in areas where there is not much advanced regeneration. The pine seed trees along with the advanced regeneration will make up the retention. Manage this stand for a mix of upland conifers and red maple.

Other Comments: Poor quality red maple stand with a dense understory of spruce, pine, and balsam fir. The advanced regen needs to be released before it becomes stunted and gets too tall to operate in without destroying the regen. Part of this stand continues into comp 40, cut this portion of the stand at the same time.

Next Steps: Regeneration Survey per work instructions.

Proposed Start Date: 10/01/2014

24 33041024-Cut	35.7	42290 - Natural Mixed Pine	Medium Density Log	87	1-50	Harvest	Clearcut with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal
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Prescription Clearcut with Reserves - Cut all conifers that are greater than 6 inches and cut all maple and ash greater than 5 inches. Except, retain all hemlock, cedar, and mark some pine seed trees to retain where the advanced regen is not very dense. The hemlock, cedar, pine seed trees, and the advanced regen will be the retention. This stand will be managed for a mix of upland conifers and maple. There are a couple of areas within this stand where there is very little overstory. These areas can be excluded from the sale. These areas are in the northeast and southeast portions of the stand.

Other Comments: This stand was last cut in 1993 on contract 014-91-01. The pine was marked to cut and all other species over 7 inches was cut; except hemlock and cedar. This is a two-aged stand; the overstory is primarily a mix of mature white and red pine and the understory is a mix of upland conifers. The advanced regen is very dense throughout most of the stand, except where there the overstory is dense. The overstory needs to be removed to release the advanced regen.

Next Steps: Regeneration Survey per work instructions.

Proposed Start Date: 10/01/2014



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Treatment Name	Acres	Cover Type	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
26 33041026-Cut	4.3	6122 - Black Spruce	High Density Pole	87		Harvest	Seed Tree with Reserves	6122 - Black Spruce	Cmpt. Review Proposal

Prescription Specs: Seed Tree with Reserves - cut all species greater than 3 inches; except mark to retain a couple of seed tree clumps. The seed tree clumps should consist of black spruce, red pine, tamarack, and white pine. Manage this stand for black spruce and red pine, but a mix with the other conifer species is acceptable.

Other Comments: Nice quality black spruce stand with areas of good quality red pine. A portion of this stand continues into comp 40, treat that portion as well with this stand.

Next Steps: Regeneration Survey per work instructions.

Proposed Start Date: 10/01/2014

29 33041029-Cut	22.5	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	87		Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
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Prescription Specs: Clearcut with Reserves - Cut all species greater than 4 inches; except hemlock, cedar, and also leave some pine, spruce, and tamarack seed trees. This stand will be managed for a mix of the current species composition, any mix is acceptable.

Other Comments: Overall poor quality lowland hardwood stand with thick conifer understory. The stand is low overall. Salvage the ash before EAB moves in and we have the opportunity to increase the conifer component of this stand by releasing the advanced conifer regen.

Next Steps: Regeneration Survey per work instructions.

Proposed Start Date: 10/01/2014

34 33041034-Cut	33.0	6122 - Black Spruce	High Density Pole	80		Harvest	Seed Tree with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
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Prescription Specs: Seed Tree with Reserves - Cut all species greater than 3 inches; except leave some scattered seed tree clumps along with two retention areas. One retention area will be left on the west side and one on the east side. These areas have younger stems within them and should hold another 10 to 20 years. Manage this stand for black spruce and red pine.

Other Comments: This stand will be removed from SCA/old growth status - this stand does not provide any unique characteristics or features that need to be preserved. This stand is a mix of black spruce and red pine and also a mix of upland and lowland. The spruce has become stunted over the last 20 years.

Next Steps: Regeneration Survey per work instructions.

Proposed Start Date: 10/01/2014

35 33041035-Cut	8.8	4113 - R.Maple, Conifer	Medium Density Pole	87	51-80	Harvest	Clearcut with Reserves	6130 - Fir, Aspen, Maple	Cmpt. Review Proposal
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Prescription Specs: Clearcut with Reserves - Cut all species greater than 3 inches; except leave all beech, cedar, and hemlock and mark to leave some pine seed trees. This stand will be managed for aspen, maple, and a mix of upland conifers, any mix is acceptable.

Other Comments: This stand was cut in 2007 on contract 032-05-01. All aspen, birch, balsam fir, and spruce was cut along with all maple greater than 12 inches. The residual maple is poor quality and the tops are dying back after being opened up. The overstory is currently too dense to allow enough sunlight to have the other species regenerate. So by removing the overstory now, the aspen, balm, balsam. spruce, and white pine will regenerate better and the maple will stump sprout.

Next Steps: Regeneration survey per work instructions.

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
36 33041036-Cut	79.4	42210 - Natural Red Pine	High Density Log	89	81-110	Harvest	Seed Tree with Reserves	42210 - Natural Red Pine	Cmpt. Review Proposal

Prescription Specs: Seed Tree with Reserves - Cut all trees greater than 4 inches; except leave some scattered red pine and white pine seed trees. No more than 10 basal area should be left and the majority of the seed trees should be red pine. The pockets of advanced regen and the pine seed trees will make up the retention. Red Pine is the desired species.

Other Comments: Stand was cut in 1993 on contract 014-91-01. All species greater than 6 inches were cut; except cedar, hemlock, and pine. Some pine was marked to cut. The Cedar River Pathway runs through this stand. Overall this stand has mature red pine throughout, but there are pockets where there was little pine left from the last harvest and these areas have fully regenerated to a mix of upland conifer and red maple. This stand needs to be cut now to regenerate the red pine. Overall the stand is upland, but there are some low wet areas mixed in. Please consider adding trail consideration language such as: Keep trail unobstructed and clear of tops, limbs and woody debris, Avoid decking on the trail, Avoid skidding on the trail where possible and minimize skid crossings, insure that the trail remains in "as good" condition during and after the logging is complete, Other language that has been used in the past would work too.

Next Steps: Following harvest, scarify all open areas within the stand to provide bare mineral soil to facilitate red pine regeneration. Regeneration Survey per work instructions.

Proposed Start Date: 10/01/2014

39 33041039-Cut	14.8	42210 - Natural Red Pine	Medium Density Log	90	51-80	Harvest	Seed Tree with Reserves	42210 - Natural Red Pine	Cmpt. Review Proposal
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Prescription Specs: Seed Tree with Reserves - Cut all trees greater than 3 inches; except leave the cedar, hemlock, and scattered red pine seed trees. Leave less than 10 basal area of residual stems. Manage this stand for red pine.

Other Comments: Stand was cut in 2001 on contract 040-00-01. All species were cut; except pine, hemlock, and cedar. The pine was thinned. The red pine is mature, it is time to regenerate the stand. In areas where there wasn't much residual pine, the stand is filling in with a mix of species. This is a high quality red pine site and should be managed for that.

Next Steps: Following harvest scarify this site, exposing bare mineral soil to facilitate red pine regeneration. Regeneration Survey per work instructions.

Proposed Start Date: 10/01/2014

40 33041040-Cut	12.9	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	87	51-80	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 greater than 3 inches; except leave all hemlock, cedar, and some scattered pine. Leave enough pine to meet the retention guidelines. This stand will be managed for red maple, aspen, and a mix of upland conifer. Any combination is acceptable.

Other Comments: Stand was cut in 2008 on contract 032-05-01. All aspen, spruce, balsam fir, and birch was cut. The stand is a low quality red maple stand with pockets of pine. In places where there was aspen, the aspen has sprouted but if the overstory isn't removed the aspen regen will become stunted and die.

Next Steps: Regeneration Survey per work instructions.

Proposed Start Date: 10/01/2014

8 NF_33041008-NonFor	7.7	3105 - Mixed Upland Herbaceous				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal
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Prescription Specs: Enhance and perpetuate opening. Cut brush and trees, mow, till, plant, and/or fertilize. Burn and/or herbicide if need and funding present. Hard or soft mast plants, shrubs, and trees may be planted if available. Herbaceous plantings will be to provide forage, brood rearing, and recreational opportunities.

Other Comments:

Next Steps:

Proposed Start Date: Unspecified

**Total Treatment Acreage Proposed: 653.8**



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription  
Specs:

Other  
Comment:

Next  
Steps:

Proposed  
Start Date: #Type!

Limiting Factor

**Total Treatment  
Acreage Proposed: 0**



**Availability for Management**

Total Acres	Acres		Dominant Site Conditions	No	5B
	Available	Not Available			
76	76		Aspen	76	
52	52		Lowland Conifers	52	
105	105		Lowland Deciduous	105	
19	19		Lowland Mixed Forest	19	
53	53		Lowland Spruce/Fir	44	9
108	108		Mixed Upland Deciduous	108	
105	105		Natural Mixed Pines	105	
55	55		Northern Hardwood	55	
210	210		Red Pine	210	
108	108		Upland Conifers	108	
57	57		Upland Mixed Forest	57	
4	4		White Pine	4	
954	954		Total Forested Acres	945	9
	100%		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
002	Available		5B: Retention for regeneration purposes	9				
<b>Comments:</b>								
Stand was cut in 1991 and there were some seed trees left. Overall this stand is a sapling sized stand.								



## 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>Removal 3</b>	Potential Old Growth		<b>SCA Removal</b>	2.4
<b>Comments</b> SCA - Removal, this stand does not provide any unique features or conditions that need to be protected.				
<b>Removal 1</b>	Potential Old Growth		<b>SCA Removal</b>	3.6
<b>Comments</b> SCA - Removal, this stand does not provide any unique features or conditions that need to be protected.				
<b>Removal 11</b>	Potential Old Growth		<b>SCA Removal</b>	4.3
<b>Comments</b> SCA - Removal, this stand does not provide any unique features or conditions that need to be protected.				
<b>Removal 9</b>	Potential Old Growth		<b>SCA Removal</b>	7.0
<b>Comments</b> SCA - Removal, this stand does not provide any unique features or conditions that need to be protected.				
<b>Removal 7</b>	Potential Old Growth		<b>SCA Removal</b>	21.2
<b>Comments</b> SCA - Removal, this stand does not provide any unique features or conditions that need to be protected.				
<b>Removal 5</b>	Potential Old Growth		<b>SCA Removal</b>	27.0
<b>Comments</b> SCA - Removal, this stand does not provide any unique features or conditions that need to be protected.				
<b>Removal 10</b>	Potential Old Growth		<b>SCA Removal</b>	33.0
<b>Comments</b> SCA - Removal, this stand does not provide any unique features or conditions that need to be protected.				
<b>Removal 2</b>	Potential Old Growth		<b>SCA Removal</b>	47.4
<b>Comments</b> SCA - Removal, this stand does not provide any unique features or conditions that need to be protected.				
<b>Removal 4</b>	Potential Old Growth		<b>SCA Removal</b>	57.3
<b>Comments</b> SCA - Removal, this stand does not provide any unique features or conditions that need to be protected.				
<b>Removal 6</b>	Potential Old Growth		<b>SCA Removal</b>	60.5
<b>Comments</b> SCA - Removal, this stand does not provide any unique features or conditions that need to be protected.				
<b>Removal 8</b>	Potential Old Growth		<b>SCA Removal</b>	66.2
<b>Comments</b> SCA - Removal, this stand does not provide any unique features or conditions that need to be protected.				



**Report 7 – DEDICATED CONSERVATION AREA DETAILS**

\* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	429 - Mixed Upland Conifers	Medium Density	14.4	30		Stand is a mix of white pine, spruce, and balsam fir; harvest in the future when the spruce and balsam are mature.
2	6124 - Lowland Spruce- Fir	Medium Density	31.9	19		Stand was clearcut on contract 033-90-01 in 1992. All species were cut; except pine, hemlock, and cedar along with some scattered seed trees. The stand is low overall but there are some upland knobs within the stand. Overall the stand is fully stocked, but there are a couple pockets of lowland brush.
3	4113 - R.Maple, Conifer	Medium Density Pole	31.5	83	51-80	Stand was cut on contract 031-05-01 in 2009. The aspen, spruce, balsam fir, and birch were cut out from the stand. The residual overstory is too dense to allow enough sunlight in to regenerate the stand. There are some aspen sprouts in the more open areas.
4	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	25.1	78	141-170	The center of this stand was thinned on contract 032-05-01 in 2008. There is no regeneration showing. Overall this stand is a poor quality red maple type. There is not enough quality stems within it to thin the stand. There is some cedar, white pine, and red pine within the stand, but none of them constitute 2%, But overall there is about 3%.
5	42210 - Natural Red Pine	Medium Density Log	33.5	87	51-80	Stand was last cut on contract 033-90-01 in 1993. All trees were cut; except pine, hemlock, and cedar and some other scattered seed trees. Some pine and hemlock was marked to cut. The areas of the stand that didn't have much overstory left, regenerated very well to a mix of red pine, white pine, spruce, balsam fir, and red maple. The overstory needs to be removed to release the regeneration around it. Where the stand was opened up there is a higher percentage of red pine seedlings, which is the desired regen. The residual overstory is very patchy. Some areas of the stand there are no stems and in other parts there is over 100 basal area.
6	4133 - Aspen, Mixed Pine	High Density Pole	23.0	43		Aspen stand with white pine. Cut this stand in 10 years when the aspen is mature.
7	42210 - Natural Red Pine	High Density Log	8.4	87	81-110	Stand was last thinned on contract 031-05-01 in 2009. Pine was thinned and all aspen, maple, spruce, balsam fir, and birch were cut out. This stand needs to be harvested now, before there is too much advanced regeneration and we will not be able to regenerate red pine.
9	6119 - Mixed Lowland Deciduous Forest	High Density Pole	47.4	79	81-110	Lowland deciduous stand, with some more upland areas with red maple.
11	4134 - Aspen, Spruce/Fir	High Density Pole	53.1	33		Aspen stand with some residual species left after the previous harvest. Clearcut when aspen is mature.
13	42290 - Natural Mixed Pine	High Density Log	69.1	87	51-80	Stand was thinned in 1993 and than again in 2008 on contract 032-05-01. The stand still has a dense overstory in most areas of the stand, which will enable shade tolerant species to seed in, but will discriminate against red pine. This stand is a very high quality red pine site and should be managed for it.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
14	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	70.0	87	51-80	This stand was cut on contract 032-05-01 in 2007-08. The western 1/3 rd of the stand had the aspen, spruce, balsam fir, and birch cut and the western 2/3 rds had the aspen and birch and maple over 9 inches cut. Overall this stand has too dense of an overstory to regenerate.
16	6122 - Black Spruce	Low Density Pole	9.1	87		Stand was cut on contract 033-90-01 in 1991. All stems greater than 7 inches was cut. Overall the stand is lowland but there are some upland portions. This stand is featuring the residual stems, but the understory is fully stocked. Manage this stand based on the understory. There is not enough of the residual overstory to harvest it.
18	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	17.5	72		This stand is a mix of cover types and upland/lowland. Overall most of the species within the stand are not yet mature.
19	42210 - Natural Red Pine	High Density Log	13.4	87	141-170	This stand was last cut 22 years ago, which opened the stand up enough to allow areas of the stand to regenerate to a mix of upland conifer species, heavy to pine. There are some low pockets within the stand.
21	42210 - Natural Red Pine	High Density Log	60.5	87	81-110	Remove the Old Growth/SCA Designation from this stand, this is not a unique stand or does it provide unique characteristics. Stand was last thinned in 1993. The Cedar River Pathway traverse through this stand. The stand still has a dense overstory in most areas of the stand, which has enabled some shade tolerant species to seed in, but will discriminate against red pine. This stand is a very high quality red pine site and should be managed for it.
22	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	18.0	87		Poor quality lowland deciduous stand, that averages about 60 basal area. Stand is mostly a mix of red maple and ash. This stand should be harvested now while we are harvesting the adjacent stands and to salvage the ash prior to the arrival of EAB. By cutting this stand it will push it towards more maple, spruce, and tamarack.
23	4113 - R.Maple, Conifer	High Density Pole	15.1	73	51-80	Poor quality red maple stand with a dense understory of spruce, pine, and balsam fir. The advanced regen needs to be released before it becomes stunted and gets too tall to operate in without destroying the regen. Part of this stand continues into comp 40, cut this portion of the stand at the same time.
24	42290 - Natural Mixed Pine	Medium Density Log	35.7	87	1-50	This stand was last cut in 1993 on contract 014-91-01. The pine was marked to cut and all other species over 7 inches was cut; except hemlock and cedar. This is a two-aged stand; the overstory is primarily a mix of mature white and red pine and the understory is a mix of upland conifers. The advanced regen is very dense throughout most of the stand, except where there the overstory is dense. The overstory needs to be removed to release the advanced regen.
25	4319 - Mixed Upland Forest	High Density Sapling	44.0	20		Stand was cut on contract in 1993. The Cedar River Pathway runs through the eastern half of this stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	6122 - Black Spruce	High Density Pole	4.3	87		Nice quality black spruce stand with areas of good quality red pine. A portion of this stand continues into comp 40, treat that portion as well with this stand.
27	4311 - Pine, Aspen Mix	High Density Sapling	13.5	20		Stand was clearcut on contract 014-91-01 in 1993. All species greater than 6 inches were cut; except pine, hemlock, and cedar. The pine was marked to cut. This stand was cut with stand 29, but this area is heavier to aspen.
29	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	22.5	87		Overall poor quality lowland hardwood stand with thick conifer understory. The stand is low overall. Salvage the ash before EAB moves in and we have the opportunity to increase the conifer component of this stand by releasing the advanced conifer regen.
30	42200 - Natural White Pine	High Density Pole	4.3	74	81-110	Stand was cut in 1993 on contract 014-91-01. All species greater than 6 inches were cut; except cedar, hemlock, and pine. Some pine was marked to cut. Poor quality white pine stand with a thick understory of red maple saplings.
31	429 - Mixed Upland Conifers	High Density Sapling	36.4	20		Stand was cut in 1993 on contract 014-91-01. All species greater than 6 inches were cut; except cedar, hemlock, and pine. Some pine was marked to cut. This is a two-aged stand and it is fully stocked.
32	6127 - Lowland Pine	Medium Density	20.1	11		Stand was clearcut in 2002 on contract 040-00-01. All species were cut; except cedar, hemlock, and some seed trees. Stand has fully regenerated to a mix of conifer species. The stand is a mix of upland and lowland, but overall there is more low ground.
33	6122 - Black Spruce	High Density Pole	7.0	46		Poor quality stand that is fully stocked, primarily with black spruce and red maple.
34	6122 - Black Spruce	High Density Pole	33.0	80		This stand will be removed from SCA/old growth status - this stand does not provide any unique characteristics or features that need to be preserved. This stand is a mix of black spruce and red pine and also a mix of upland and lowland. The spruce has become stunted over the last 20 years.
35	4113 - R.Maple, Conifer	Medium Density Pole	8.8	87	51-80	This stand was cut in 2007 on contract 032-05-01. All aspen, birch, balsam fir, and spruce was cut along with all maple greater than 12 inches. The residual maple is poor quality and the tops are dying back after being opened up. The overstory is currently too dense to allow enough sunlight to have the other species regenerate. So by removing the overstory now, the aspen, balm, balsam. spruce, and white pine will regenerate better and the maple will stump sprout.
36	42210 - Natural Red Pine	High Density Log	79.4	89	81-110	Stand was cut in 1993 on contract 014-91-01. All species greater than 6 inches were cut; except cedar, hemlock, and pine. Some pine was marked to cut. The Cedar River Pathway runs through this stand. Overall this stand has mature red pine throughout, but there are pockets where there was little pine left from the last harvest and these areas have fully regenerated to a mix of upland conifer and red maple. This stand needs to be cut now to regenerate the red pine. Overall the stand is upland, but there are some low wet areas mixed in.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
37	6139 - Mixed Lowland Forest	Medium Density	19.3	24		Stand was clearcut in 1989 on contract 014-87-01. All trees were cut; except pine, hemlock, and cedar. The Cedar River Pathway runs through part of this stand.
39	42210 - Natural Red Pine	Medium Density Log	14.8	90	51-80	Stand was cut in 2001 on contract 040-00-01. All species were cut; except pine, hemlock, and cedar. The pine was thinned. The red pine is mature, it is time to regenerate the stand. In areas where there wasn't much residual pine, the stand is filling in with a mix of species. This is a high quality red pine site and should be managed for that.
40	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	12.9	87	51-80	Stand was cut in 2008 on contract 032-05-01. All aspen, spruce, balsam fir, and birch was cut. The stand is a low quality red maple stand with pockets of pine. In places where there was aspen, the aspen has sprouted but if the overstory isn't removed the aspen regen will become stunted and die.
41	429 - Mixed Upland Conifers	Medium Density Pole	57.2	80		This stand was privately owned last entry period, it was purchased by the state in 2009. The stand was cut around 2004. This stand is a mix of upland and lowland. Where the stand was really opened up before the stand is regenerating well to a mix of species. Some areas still have a dense overstory. Some of the residual white pine and red maple are dying out.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
8	3105 - Mixed Upland Herbaceous	7.7	No	Unspecified	
10	6220 - Alder/willow	2.4	No	Unspecified	
12	6220 - Alder/willow	3.6	No	Unspecified	
15	6220 - Alder/willow	57.3	No	Unspecified	
17	6224 - Treed Bog	27.0	No	Unspecified	
20	6220 - Alder/willow	21.2	No	Unspecified	
28	6220 - Alder/willow	66.2	No	Unspecified	
38	6224 - Treed Bog	3.9	No	Unspecified	
42	6220 - Alder/willow	6.8	No	Unspecified	
43	6220 - Alder/willow	5.7	No	Unspecified	