



# Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33055

Entry Year 2023

Acreage: 1,039

County Menominee

Management Area: Green Bay Lake Plain

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

**Stand Examiner:** Dan Racine

**Legal Description:**

T35N R25W, Sections 03 and 10

**Identified Planning Goals:**

This compartment is part of the Green Bay Lake Plain Management Area and is located about 15 miles northeast of Stephenson, Michigan. It is a mixture of upland and lowland types. Upland types are about 77 % of the compartment and include mostly northern hardwoods with aspen and spruce/fir forest types. Lowland types are about 23% and include mostly lowland deciduous and lowland brush with mixed conifer and lowland deciduous timber types. The water type is the Big Cedar River and Elwood Creek. There are several unnamed streams through the compartment and no lakes. The treatments within this compartment are in the lowland deciduous and northern hardwood cover types. These treatments are designed to salvage ash from Emerald Ash Borer and regenerate a mix of deciduous and conifer species. The treatments in the northern hardwoods are designed to improve the existing stand quality and structure.

**Soil and topography:**

Topography is level to gently rolling. The soils are primarily well-drained sands, loams and mucks/peats. The major soil series include the complexes of Deford-Wainola-Rousseau, TawasDeford, Onaway-Rousseau and Bowers-Ingalls and series of Solona and Wainola.

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

The compartment is part of a mostly contiguous block of state ownership with a few private holdings mainly along the Big Cedar River and the county road "Camp O" Road. Most private ownership is recreational for hunting, fishing and trapping and only seasonally occupied with access through state-owned land. One parcel has a permanent residence located in the southern portion of the compartment along county road Town Road.

**Unique Natural Features:**

The Big Cedar River meanders north to south through the eastern portion of the compartment. Also, Elwood Creek flows west to east through the southern portion.

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

There are no known features.

**Special Management Designations or Considerations:**

Portions of the compartment along the Big Cedar River are proposed SCA riparian corridor.

**Watershed and Fisheries Considerations:**

Compartment 33055: NLMMU – Jennifer Johnson: This compartment contains many waterbodies- Cedar River, Elwood Creek, and unnamed tributaries. The Cedar River is a designated Type 4 trout stream that has a width greater than 50' at this location, therefore a 100' buffer is recommended. Elmwood Creek and the unnamed tributaries are Type 1 trout streams less than 50' width. A 300' buffer is recommended in riparian areas susceptible to aspen regeneration. For areas not susceptible to aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices. Given recent Great Lakes high-water levels, standing water in the form of vernal pools or temporary waterbodies may exist throughout all compartments. Therefore, buffers are recommended to protect these areas in accordance with Best Management Practices.

**Wildlife Habitat Considerations:**

This compartment is within the Green Bay Lake Plain Management Area. The area demonstrates a natural propensity to grow white pine and balsam fir--species which are found in the understory of many aspen and maple stands. Northern hardwood stands exhibit good vegetative diversity in this area, and diverse tree species (beech, hemlock, upland cedar, yellow birch, etc.) will continue to be encouraged in such stands to benefit wildlife. A lowland deciduous stand with cedar

component will be treated this year of entry to address Emerald Ash Borer impacts. The highest quality cedar and winter deer cover will be retained as well as mixed deciduous species. The riparian corridor along the Big Cedar River will be maintained as a special conservation area to promote mature forest conditions for wildlife that utilize this habitat. These mature forest areas near the river will provide large diameter trees, snags, cavity trees and dead woody debris on the forest floor-attributes that are important to a large number of wildlife species.

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

Compartment 55: Sections 3 & 10, T35N-R25W, Menominee County

No known potential exists for commercial oil & gas production in this part of the state. The nearest active sand/gravel pits are less than three miles to the west and less than two miles south. The compartment is predominantly wetlands, and potential for sand & gravel or limestone mining appears limited. There has been some limited mineral exploration in the area in the past including a test well within the compartment. However, potential metallic mineral bearing formations beneath the compartment are thought to be too deep to have significant potential for discovery or economic recovery. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

### **Vehicle Access:**

The main access into the compartment is from the south through a locked gate off the Town Road and the Camp "O" Road. The Forest Islands ORV Trail uses this forest road. The portion east of the Big Cedar River is accessed from County Road 551--Cedar River Road. Access is also available from the north via a forest road used by the Forest Islands ORV Trail.

### **Survey Needs:**

Additional survey corners should not be needed for the proposed management activities.

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

Forest Island ORV Trail utilizes several forest roads within the compartment. Other recreational opportunities within this compartment include hunting, trapping, fishing and horseback riding.

### **Fire Protection:**

Access is very good throughout most of this compartment and the timber types in the area are generally low risk for fire hazard. Some of the interior more remote areas may present a greater fire hazard.

### **Additional Compartment Information:**

The following reports from the Inventory are attached:

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

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

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

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

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

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

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

# Cover Type & Treatments Map

Compartment: 55

County: Menominee

Unit: Escanaba

Mgmt Area: Green Bay Lake Plain

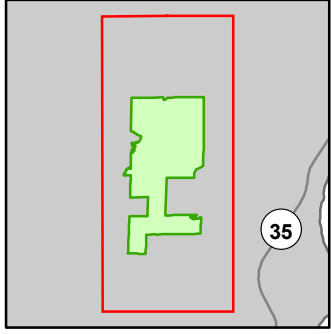
YOE: 2023

Acres: 1039.4 GIS Calculated

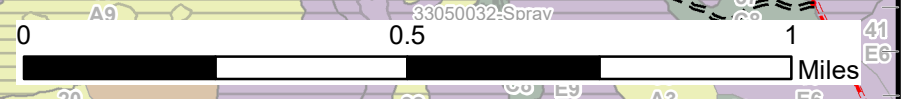
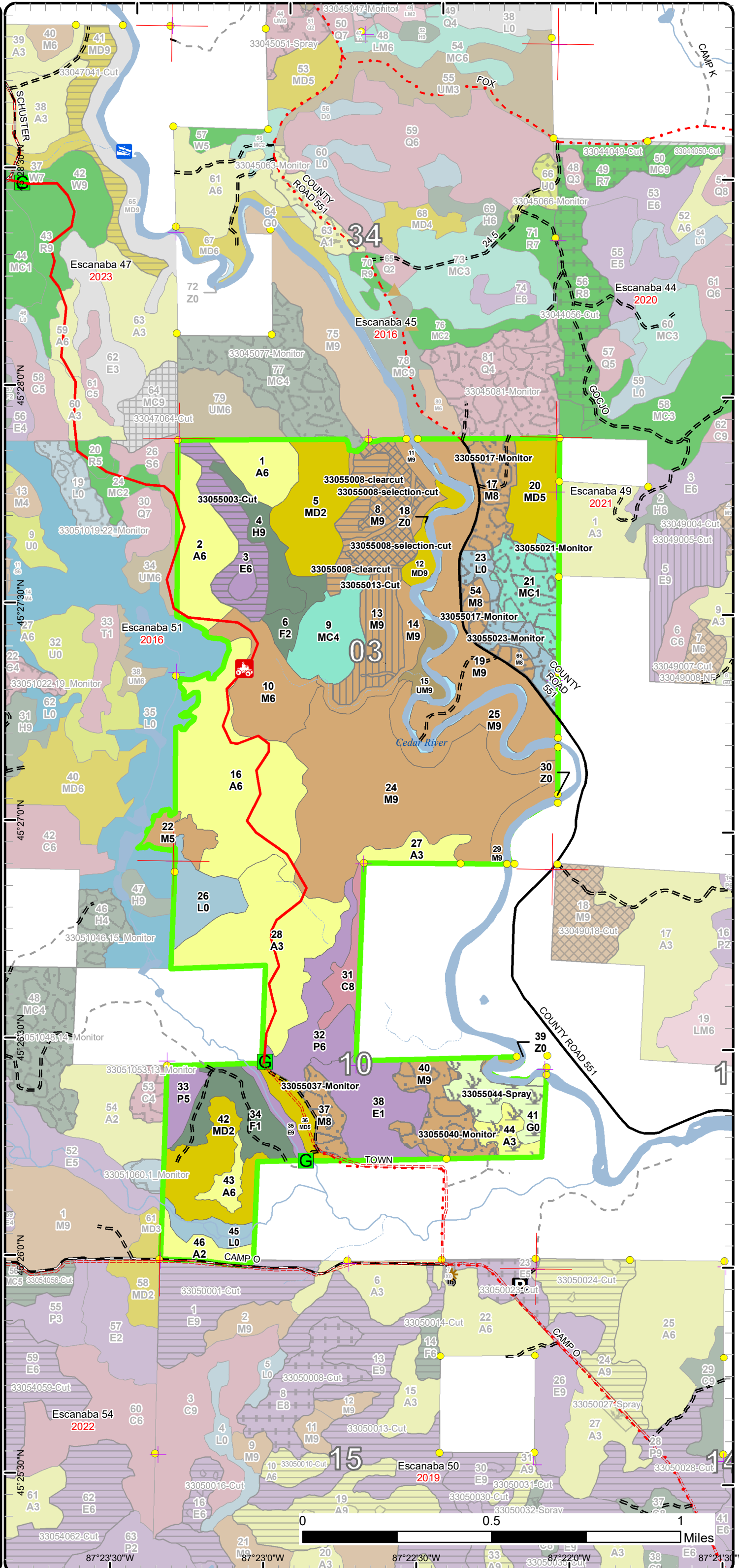
Examiner: Dan Racine

Map Revised: 7/1/2021

Map Phase: Web-Post



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- 🚙 ORV Trails
- Designated ATV
- Designated ORV Route
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- G Gate
- B Boating Access Site
- P Parking Lot
- \* Trailhead
- Compartment Boundary
- Pesticide
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub



87°23'30"W 87°22'30"W 87°21'30"W

# Stand Boundary Map

Compartment: 55

County: Menominee

Unit: Escanaba

Mgmt Area: Green Bay Lake Plain

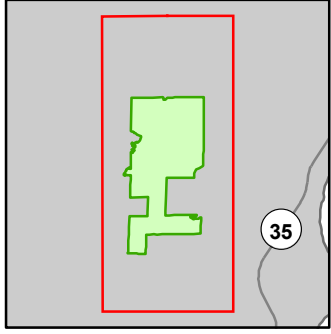
YOE: 2023

Acres: 1039.4 GIS Calculated

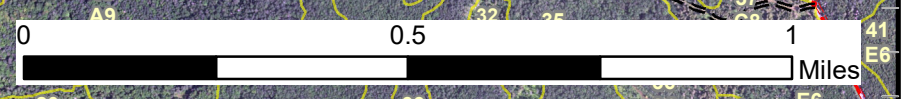
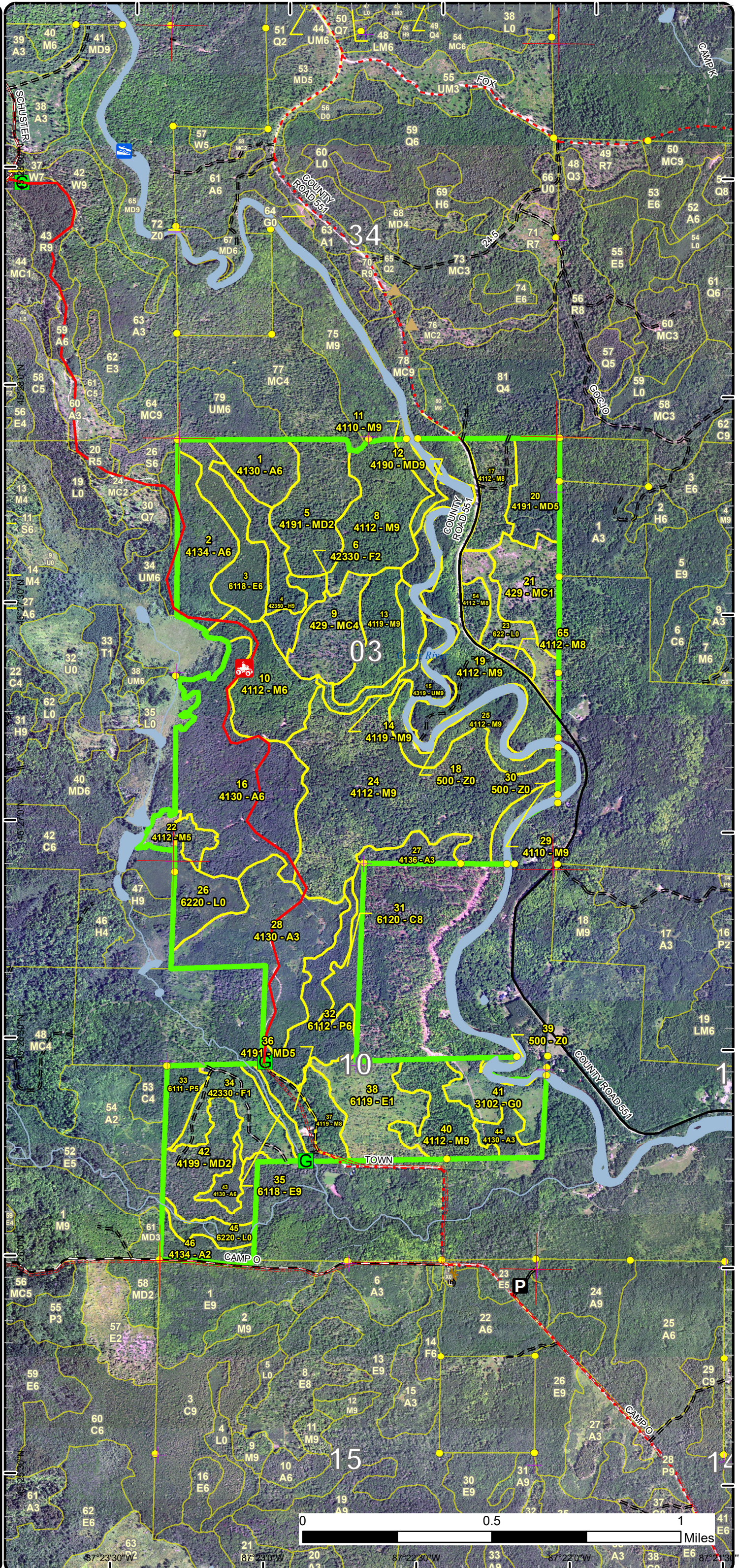
Examiner: Dan Racine

Map Revised: 7/1/2021

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87°23'30"W 87°22'30"W 87°22'30"W 87°22'30"W 87°21'30"W

# Special Conservation Areas

Compartment: 55

County: Menominee

Unit: Escanaba

Mgmt Area: Green Bay Lake Plain

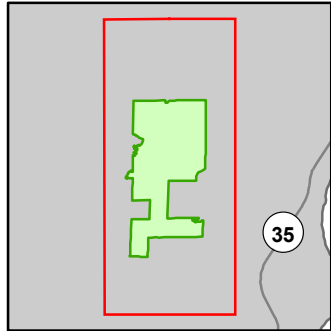
YOE: 2023

Acres: 1039.4 GIS Calculated

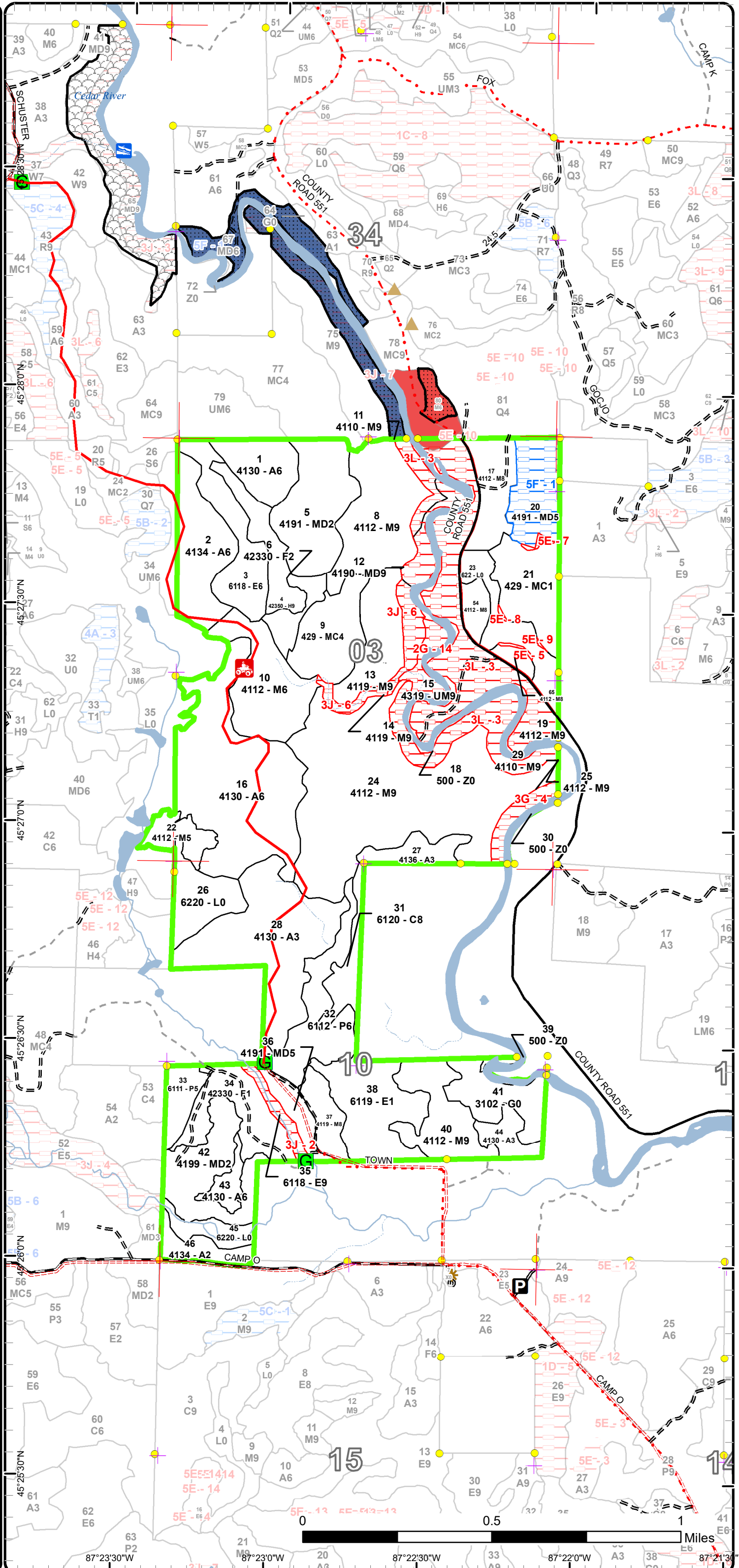
Examiner: Dan Racine

Map Revised: 7/1/2021

Map Phase: Web-Post



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- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- G Gate
- B Boating Access Site
- P Parking Lot
- \* Trailhead
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- SCA Removal
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes
- Type 1 and Type 2 Old Growth
- Spring or Seep



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	81	10	88	48	0	0	0	0	0	0	0	0	0	0	0	0	226
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	11
Hemlock	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16
Herbaceous Openland	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Lowland Aspen/Balsam Poplar	0	0	0	10	28	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Lowland Deciduous	0	0	34	0	0	0	0	5	25	0	0	0	0	0	0	0	0	0	64
Lowland Shrub	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Mixed Upland Deciduous	0	30	36	0	9	22	0	0	0	0	0	0	9	0	0	0	0	0	106
Northern Hardwood	0	0	0	0	0	0	0	38	237	46	22	0	55	0	0	0	0	0	398
Upland Conifers	0	26	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	50
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	8
Upland Spruce/Fir	0	0	0	24	9	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Water	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
<b>Total</b>	<b>89</b>	<b>56</b>	<b>151</b>	<b>44</b>	<b>134</b>	<b>70</b>	<b>0</b>	<b>0</b>	<b>43</b>	<b>287</b>	<b>46</b>	<b>38</b>	<b>0</b>	<b>83</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1038</b>



## Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 55

Total Compartment Acres: 1,039

Commercial Harvest - 82  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Lowland Deciduous	22	0	0	0	0	0	0	0	0	22
Northern Hardwood	13	23	0	0	23	0	0	0	0	60
<b>Total</b>	<b>36</b>	<b>23</b>	<b>0</b>	<b>0</b>	<b>23</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>82</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	82	0	0	0	0	27	105	0	0	214
Next Step	0	0	0	0	0	0	109	0	0	109
<b>Total</b>	<b>82</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>27</b>	<b>214</b>	<b>0</b>	<b>0</b>	<b>323</b>



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Proposed Treatments:**

<b>3</b>	<b>33055003-Cut</b>	22.1	6118 - Lowland Deciduous with Cedar	Poletimber Well	89	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention: Cut all trees except leave retention in the areas of the highest cedar concentration.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Mixed conifer and deciduous species.  <u>Regen:</u>  <u>Other</u> This stand is in conditional range and has a canopy composition of 25% cedar. The biologist and forester identified winter shelter area to be excluded from harvest. The remainder of the stand will be treated. The south end is scattered cedar and higher to the smaller diameter black ash. The retention will be concentrated to the southern end of the stand leaving a mix of all species. EAB is a concern but the lowest quality areas may not be harvested. The retention is approximate and will be determined at the time of sale prep.  <u>Comment:</u>  <u>Site Condition</u>                      Proposed Start Date: 10/1 /2022</p>											
<b>8</b>	<b>33055008-clearcut</b>	13.4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	90	141-170	Harvest	Clearcut with Retention	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Clearcut with Retention: Harvest all trees except cedar, hemlock and any pine found within the clearcut portion.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Any Mix of Northern hardwood species.  <u>Regen:</u>  <u>Other</u> The better quality hardwood areas will be selection marked and red maple/ash areas will be clearcut. Retention was placed in the areas that appear to be a creek bottom. Retain any creek bed areas out. The retention is approximate and will be determined at the time of sale prep.  <u>Comment:</u>  <u>Site Condition</u>                      Proposed Start Date: 10/1 /2022</p>											
<b>8</b>	<b>33055008-selection-cut</b>	23.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	90	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selection harvest: Retain approximately 70-90BA throughout the selection marked portion of the stand. Retain the minor component species.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Any Mix of Northern hardwood species.  <u>Regen:</u>  <u>Other</u> The better quality hardwood areas will be selection marked and red maple/ash areas will be clearcut. The areas with a defined stream bank and bottom will be retained out.  <u>Comment:</u>  <u>Site Condition</u>                      Proposed Start Date: 10/1 /2022</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>13 33055013-Cut</b>	23.1	4119 - Mixed Northern Hardwoods	Sawtimber Well	80	81-110	Harvest	Shelterwood	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Shelterwood: Harvest all trees except any cedar, hemlock and pine, found. Leave some maple, beech and yellow birch. The total merchantable BA retained post harvest will vary from 0 to higher amounts in the hemlock residual areas.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mixed deciduous species. Acceptable mixed conifer species.</p> <p><u>Regen:</u></p> <p><u>Other</u> The existing conifer component is already high. Protect that and attempt to establish additional regeneration of the maple. Look to remove the remainder of the overstory when additional maple regeneration is established.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

**Approved Treatments:**

<b>17 33055017-Monitor</b>	27.4	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	79	81-110	Monitoring	Natural Regen (Re-Inventory)	4112 - Maple, Beech, Cherry Association	Uneven-Aged	No
<p><u>Prescription</u> Continue to monitor the regeneration sale from the 551 Fawn sale completed in 2017.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, beech, cherry and mix of overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 3 /8 /2021</p>										
<b>21 33055021-Monitor</b>	24.9	429 - Mixed Upland Conifers	Sapling Poor	7	1-50	Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Monitor the regeneration success following the 551 Fawn sale.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mix of the overstory</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 3 /8 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>23</b>	<b>33055023-Monitor</b>	17.5	622 - Lowland Shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6115 - Lowland Ash	Even-Aged	No
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Prescription Continue to monitor the regeneration from the 551 Fawn Sale completed in 2017.

Specs:

Next Step

Treatments:

Acceptable Ash and mix of overstory species.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 3/8/2021

<b>37</b>	<b>33055037-Monitor</b>	11.0	4119 - Mixed Northern Hardwoods	Sawtimber Medium	100	51-80	Monitoring	Natural Regen (Re-Inventory)	4112 - Maple, Beech, Cherry Association	Uneven-Aged	No
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Prescription Monitor the regeneration.

Specs:

Next Step

Treatments:

Acceptable

Regen: Acceptable regeneration includes a mixture of stump sprouts and seed origin seedlings of current species. Check for regeneration success next entry OI.

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1/2030

<b>40</b>	<b>33055040-Monitor</b>	24.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	80	51-80	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Uneven-Aged	No
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Prescription Monitor the regeneration.

Specs:

Next Step

Treatments:

Acceptable

Regen: Acceptable regeneration includes a mixture of stump sprouts and seed origin seedlings of current species. Check for regeneration success next entry OI.

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1/2030



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
41 33055044-Spray	27.2	3102 - Grass	Nonstocked			Pesticide	Injection	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> Pest control. Spray/inject all autumn/Russian olive shrubs. Cut and remove scotch pine trees. Most of the olive is in the southern portion of the stand along the boundary of stand 44. Most of the scotch pine is in the northern portion of the stand near the boundary of stand 40.</p> <p><u>Specs:</u> How will pest treatments be funded?</p> <p><u>Next Step</u> Monitoring, Herbicide Use</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> SCA located along river. Old next step comments: Periodically check for effectiveness of treatment.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/3 /2019</p>										

Total Treatment Acreage Proposed: 214.4

## Report 4 – Site Conditions

Escanaba Mgt. Unit

Dan Racine : Examiner

Compartment: 55

Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		5F	2G	3G	3J	3L	5E	
226	226	0	0	Aspen							
11	11	0	0	Cedar							
16	16	0	0	Hemlock							
20	20	0	0	Herbaceous Openland							
38	38	0	0	Lowland Aspen/Balsam Poplar							
65	59	0	5	Lowland Deciduous				5			
45	44	0	0	Lowland Shrub							0
106	75	22	9	Mixed Upland Deciduous	22				9		
398	297	0	101	Northern Hardwood	0	0	7	4	90		
50	49	0	1	Upland Conifers							1
7	0	0	7	Upland Mixed Forest		7					
33	33	0	0	Upland Spruce/Fir				0			
24	24	0	0	Water		0	0		0		
1,039	893	22	125	Total Forested Acres	22	7	7	9	99		2
	86%	2%	12%	Relative Percent							

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5F: Evaluated for Forest Health Considerations	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Evaluated for SBW. Low density/diameter of spruce/fir.							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> SCA-Small stream riparian corridor-small stream feeder to Elwood Creek. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.							

## Report 4 – Site Conditions

Escanaba Mgt. Unit  
Dan Racine : Examiner

Compartment: 55  
Year of Entry: 2023

3	Unavailable	3L: Other wildlife concerns	99	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> SCA--Big Cedar River riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.							
4	Unavailable	3G: Other Influence zones - See comments	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> SCA--Big Cedar River riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.							
5	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

**Escanaba Mgt. Unit**  
**Dan Racine : Examiner**

**Compartment: 55**  
**Year of Entry: 2023**

14	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area  
 HCVA = High Conservation Value Area  
 SCA = Special Conservation Area

Conservation Area	Type	Description
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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
1	4130 - Aspen	Poletimber Well	17.7	44	Unspecified	N/A	Red and white pine stand in the north western portion of the stand. Mr/A type along the eastern border of the stand (includes red maple poles, quaking aspen log, white pine log, red pine log, hemlock log). Other observed species: balsam fir, red maple, red pine, white spruce.																																																		
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2	4134 - Aspen, Spruce/Fir	Poletimber Well	30.5	45	Unspecified	N/A	Stand about 60% upland and 40% lowland. In north eastern portion of stand is an upland area of red maple poles and birch. Several pockets of hemlock with some red and white pine are scattered within the stand. Some lowland areas have tag alder and ash.																																																		
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3	6118 - Lowland Deciduous with Cedar	Poletimber Well	25.4	89	81-110	N/A																																																			
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4	42350 - Upland Hemlock	Sawtimber Well	15.6	102		N/A	Hemlock and white pine on ridge Last treated in 1988.																																																		
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5	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	36.2	14	51-80	N/A	Red maple are decent but some are browsed. Some areas are nice regeneration to quaking aspen and balm. Stand is about 65-70% upland and 35-30% lowland. Occasional pockets of hemlock and scattered hemlock, cedar, green ash and red maple. Other species observed: red pine, balm and green ash.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
6	42330 - Upland Fir	Sapling Medium	8.7	32		N/A	Scattered white pine and hemlock residual log/poles. Last treated in 1988.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Balsam Fir		60	Sapling	2	32				
Black Spruce		10	Sapling	2					
White Pine		5	Log	16					
White Pine		22	Sapling	3					
Hemlock		3	Log/Pole	12					
8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	40.2	90	141-170	N/A	Nice quality logs and poles. Leatherwood common Mostly upland (about 90% upland, 10% lowland). Stand last treated in 2006. Other species observed: beech, black cherry.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Sugar Maple		60	Log	12	90	Beech	Low	5 - 10 feet	Sapling
Red Maple		30	Log	12	90	Leatherwood	Medium	< 5 feet	Tall Shrub
White Ash		3	Log	14					
Paper Birch		3	Log/Pole	10					
Balsam Fir		2	Pole	8					
Northern White Cedar		2	Pole	9					
9	429 - Mixed Upland Conifers	Poletimber Poor	24.5	80	1-50	N/A	Mostly upland with some lowland (70%-30%). Nice red maple stumps sprouts (4-6 feet tall) in some areas. Low areas have more ash component. Other species observed: white spruce, beech. Treatment report comments: This stand was cut under the Last Animal sale and there's quite a bit of beech, balsam fir, white spruce and scattered red maple in the under story. I'm calling it a two aged stand and the under story was from the cut and the over story is what was left from harvest.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Balsam Fir		30	Pole	7		Red Maple	Medium	Variable	Sapling
White Pine		25	Log	14		Beech	Medium	5 - 10 feet	Sapling
Yellow Birch		10	Log/Pole	10		Balsam Fir	Medium	Variable	Sapling
Red Maple		30	Pole	9	80	White Spruce	Low	5 - 10 feet	Sapling
Northern White Cedar		5	Pole	9		White Pine	Low	5 - 10 feet	Sapling
10	4112 - Maple, Beech, Cherry Association	Poletimber Well	33.3	80	51-80	N/A	Stand is mostly upland (70%) with northern portion lowland with a small stream. Northwestern portion is more paper birch/red maple type. Lowland areas are more ash. Some upland areas could be selectcut now but could wait until next entry. Stand last treated in 2000. Other observed species: beech, balsam fir, white pine, yellow birch, cedar and quaking aspen.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		80	Pole	9	80	Beech	Low	10 - 20 feet	Sapling
Paper Birch		5	Pole	6		Balsam Fir	Medium	10 - 20 feet	Sapling
Black Ash		5	Pole	6		White Spruce	Low	10 - 20 feet	Sapling
Green Ash		10	Pole	9		White Pine	Low	10 - 20 feet	Sapling
11	4110 - Sugar Maple Association	Sawtimber Well	6.0	90	111-140	N/A	SCA--Big Cedar River riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.  Nice quality sugar maple poles and log trees. Some den trees and snags. Cedar along river. Other species observed: paper birch.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Sugar Maple		90	Log/Pole	12	90				
Basswood		7	Log	12					
Northern White Cedar		3	Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
12	4190 - Mixed Upland Deciduous with Cedar	Sawtimber Well	8.8	120	141-170	N/A	SCA--Big Cedar River riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.																																																												
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13	4119 - Mixed Northern Hardwoods	Sawtimber Well	23.5	80	81-110	N/A	Mostly 70% upland with about 30% lowland. Regeneration mostly unsuccessful due to high residual basal area and deer browse. Lowland areas are mostly impeded drainage and ash swales. Other species observed: beech, yellow birch, hemlock--all poles.																																																												
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15	4319 - Mixed Upland Forest	Sawtimber Well	7.5	125	111-140	N/A	SCA--Big Cedar River riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.																																																												
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16	4130 - Aspen	Poletimber Well	82.1	36	81-110	N/A	North half cut in 1990; south half cut in 1984. Mostly upland but some lowland in NW portion of the stand. Scattered beech and in pockets on ridge tops. No sign of beech bark disease. Other species observed: red maple saplings/stump sprouts.																																																												
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17	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	18.4	79	81-110	N/A	Mostly upland 80% with lowland 20% in wetter areas and swales. Pockets of hemlock and cedar. A small opening is filling in. A small red pine log area near opening. Occasional beech and yellow birch poles and saplings.																																																			
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20	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	21.8	40	1-50	N/A	North and south portions are upland with the central portion lowland with ash and tag alder. Patches of cedar poles and some scattered hemlock poles and beech poles, other areas have pockets of quaking aspen and balm. Grassy opening has filled in with balsam fir and balm. Other species observed: beech poles hemlock poles/logs, cedar poles, balm saplings.																																																			
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21	429 - Mixed Upland Conifers	Sapling Poor	26.0	7	1-50	N/A	Mixed lowland and upland stand. This stand was harvested under the 551 fawn sale. Residual trees left from harvest makes this stand 25to50 percent otherwise it would be 0to25 percent. Residual cedar, yellow birch and hemlock. The seedlings filling in post harvest are balsam fir, balsam poplar, white spruce, white pine, beech and ash. Phragmites filling in the lowest wet areas.																																																			
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<b>22</b>	4112 - Maple, Beech, Cherry Association	Poletimber Medium	9.9	71	51-80	N/A	This stand was a supplement added to the Last Animal sale completed in 2015. Mostly upland but some lowland, too.																																																		
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<b>23</b>	622 - Lowland Shrub	Nonstocked	18.1	0	Unspecified	No	This stand was Unit 2 of the 551 Fawn sale completed in 2017. Scattered red maple and yellow birch poles and logs with some balsam fir, white pine and spruce left. Cattails in the lowest and wettest areas of the stand.																																																		
<b>24</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	125.1	85	81-110	N/A	Stand is rolling terrain. Mostly upland 90% with some lowland 10%. More hemlock in NW portion in the understory. Occasional woly beech trees. Wetter portions with cedar, ash and/or hemlock. Some areas are heavier to sugar maple with nice quality poles and logs. Stand last treated in 1999-2000 and under the last animal sale in 2014 . Other species observed: white pine, ash, baswood, beech, paper and yellow birch, hemlock, cedar, quaking aspen--all species poles and/or logs.																																																		
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<b>25</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	22.1	85	111-140	N/A	SCA--Big Cedar River riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.  Mostly upland but some areas with impeded drainage and flood plain. Most of the banks are high and areas are eroding on the curves. Some areas have more paper birch and pockets of hemlock and some of cedar. Other ospecies observed: yellow birch poles, hemlock and white pine logs and beech, white ash, cedar, and ironwood poles.																																																		
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<b>26</b>	6220 - Alder/willow	Nonstocked	18.1			No	Hemlock and hardwood on islands along the west border could be managed with the adjacent compartment to the west.																																																		
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<b>27</b>	4136 - Aspen, Mixed Conifer	Sapling Well	9.9	22	1-50	N/A	<p>Mostly upland 80% with some lowland 20%. Crown closure is variable with areas that are 50-75 and some 0-25%. Pockets are hemlock and/or cedar residual from last treatment. Some cedar residual have blown over. Some lower areas have scattered tag alder.</p>																																																					
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<b>28</b>	4130 - Aspen	Sapling Well	62.0	14		N/A	<p>Most of the lower ground is along the perimeter. Residual trees are beech, ash and elm. Some of the elm have died. Some lower areas have ash stump sprouts growing well and above the browse line and tag alder. Some of the stand is medium to poorly stocked and some areas are well stocked. Poor stocked areas filling in.</p>																																																					
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<b>29</b>	4110 - Sugar Maple Association	Sawtimber Well	7.1	85	141-170	N/A	<p>SCA--Big Cedar River riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.</p> <p>Most of stand high bank but northeast portion is flood plain. Occasional cedar along bank. Beaver working aspen trees near river. A few beech and ironwood seedlings/sapling throughout the stand but not enough to tally. Other species observed: white ash, basswood, red maple, quaking aspen, paper birch and beech.</p>																																																					
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<b>30</b>	500 - Water	Nonstocked	1.3			No	Big Cedar River																																																					
<b>31</b>	6120 - Lowland Cedar	Sawtimber Medium	11.4	120	171-200	N/A	<p>Mostly cedar in the northern portion but more ash in the southern portion. Observed no deer sign inhabiting area but flushed several grouse. Other species observed: elm, green ash and paper birch.</p>																																																					
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<b>32</b>	6112 - Lowland Aspen	Poletimber Well	28.2	35		N/A	<p>Most of stand (north and south portions) is upland but with the occasional impeded drainage the central portion is lowland ash type. NE corner is mature P type with balm and aspen and could be treated. The more upland areas have somewhat larger trees 7-8" dbh. Other species observed: balsam fir, white spruce, red maple, cedar.</p>																																																					
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<b>33</b>	6111 - Lowland Balsam Poplar	Poletimber Medium	10.0	28	Immature	N/A	Mostly lowland but some upland along the east boundary of stand. Mostly full canopy but some areas more open with tag alder. Southern portion mostly ash and northern and central areas more balm. Other species observed: paper birch, white spruce, quaking aspen and cedar.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Balsam Poplar		50	Pole	8	28	Balsam Fir		
Balsam Fir		40	Pole	8	28	White Spruce		
Green Ash		10	Log/Pole	10		Tag Alder		
<b>34</b>	42330 - Upland Fir	Sapling Poor	24.3	26		N/A	Stand is variable. Most of the stand is 25-50% stocked, but some areas are fully stocked while other are quite open but filling in with balsam fir. Other species observed: white pine, beech and tamarack.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		7	Sapling	2	20	Balsam Fir		
Balsam Poplar		15	Sapling	1		Density		
Balsam Fir		76	Sapling	2	26	Avg. Height		
<b>35</b>	6118 - Lowland Deciduous with Cedar	Sawtimber Well	5.4	79	141-170	N/A	Small unnamed stream riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.  Several pockets of cedar. Other species observed: balsam fir, yellow birch.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		5	Log	12		Density		
Northern White Cedar		20	Log	12		Avg. Height		
Black Ash		5	Pole	6		Size		
<b>36</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	9.1	30	51-80	N/A	Stand a real mix of types--areas of balm, aspen, hemlock balsam fir, cedar, open and a sand pit. Other species observed: beech, red maple.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Quaking Aspen		32	Pole	7	30	Balsam Fir		
Balsam Poplar		40	Pole	7	30	Density		
Balsam Fir		20	Pole	8		Avg. Height		
Northern White Cedar		2	Pole	9		Size		
White Pine		3	XLog	24				
<b>37</b>	4119 - Mixed Northern Hardwoods	Sawtimber Medium	10.9	100	51-80	N/A	This stand was cut under the Last Animal sale in 2014. Lots of residual BA.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		70	Log/Pole	12	100	Beech		
Yellow Birch		10	Log/Pole	11		Balsam Fir		
Northern White Cedar		10	Log/Pole	11		Density		
Hemlock		5	Log/Pole	10		Avg. Height		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
38	6119 - Mixed Lowland Deciduous Forest	Sapling Poor	34.0	19	Immature	N/A	Some canopy cover type is regeneration from first stage of shelterwood harvest done in 2002. Last removal cut is Last animal sale unit 8 and completed in 2014 with retained species of poletimber.																																																			
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39	500 - Water	Nonstocked	1.8			No	Big Cedar River																																																			
40	4112 - Maple, Beech, Cherry Association	Sawtimber Well	26.2	80	51-80	N/A	Completed in 2014 under the Last animal sale unit 9. Scotch pine and spruce to the east were completed as supplement to Last animal and included that portion into stand 41.																																																			
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41	3102 - Grass	Nonstocked	19.9			No	TS Update- North end of this stand is a part of the scotch pine and spruce plantation that was cut under the Last Animal sale as a contract supplement.																																																			
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42	4199 - Other Mixed Upland Deciduous	Sapling Medium	30.0	4	Immature	N/A	Stand was clearcut in 2018 on contract 034-16-01. There was no retention left. This stand was prescribed for treatment through the 2016 SBW review. Pretty close to 75% canopy closure.																																																			
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43	4130 - Aspen	Poletimber Well	5.9	30	81-110	N/A	Mostly upland 80% with some lowland 20%. Most of stand is aspen but some areas are heavier to balm.																																																			
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<b>44</b>	4130 - Aspen	Sapling Well	8.5	16	Immature	N/A	Mostly well stocked but some areas are more open. Russian/autumn olive is dense in most of stand.																																					
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<b>45</b>	6220 - Alder/willow	Nonstocked	8.4			No	SCA--Elwood Creek riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.  Portions are fully stocked Ash in the flood plain in the north east portion of the stand and portions along the creek.																																					
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<b>46</b>	4134 - Aspen, Spruce/Fir	Sapling Medium	9.7	18	Immature	N/A	Mostly upland 75% with some lowland 25%. Found phragmites along the north side of Camp O Road. Other species observed: green ash poles and red maple saplings/stump sprouts. I did not see any phragmites here.																																					
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<b>54</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	6.2	79	81-110	N/A	Unit 1 of the 551 Fawn sale. Mostly upland 80% with lowland 20% in wetter areas and swales. Pockets of hemlock and cedar. A small opening is filling in. Occasional beech and yellow birch poles and saplings.																																					
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