



# Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33035

Entry Year 2020

Acreage: 865

County Menominee

Management Area: Green Bay Lake Plain

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**Revision Date:** 2018-06-20

**Stand Examiner:** Dan Racine

**Legal Description:**

T37N, R25W Sec. 34, 35 & 36

**Identified Planning Goals:**

The major cover type within the upland forest is aspen. The upland cover types also include mixed upland conifers, northern hardwood and mixed natural pines. The major cover types within the lowland forest is a mix of lowland deciduous, mixed lowland conifer and cedar. The treatments within this year of entry are focused within the upland cover types. These treatments which total 59 acres consist of regeneration harvest designed to regenerate the overstory species and a thinning harvest designed to promote stand quality. The red pine stands along the south end of the compartment line are encouraged to be managed with the compartment to the south and additional harvests will take place in the next treatment period to take advantage of stand merchantability.

**Soil and topography:**

Terrain is level to rolling. The majority of the upland consists of Deford-Woinola-Rousseau complexes. Uplands also include Onaway fine sandy loam, Rousseau fine sand and Woinola fine sand. Lowland areas consist of Deford mucky fine sand, Burleigh mucky fine sand and Tawas-Deford complexes.

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

This compartment lies towards the north edge of a large state ownership block that is about 25 miles long by 7 miles wide near the Lake Michigan shoreline. Land use on state owned lands include hunting, camping, ATV use as well as a mix of other opportunities. This compartment has considerable private in-holdings, most of which are used for deer hunting, general recreation, and timber management.

**Unique Natural Features:**

The Big Cedar river flows through this compartment. The 7 Mile Marsh which is a large wetland complex consisting of lowland conifer and bogs.

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

Previous notes mentioned that the OX bow on the Cedar river at the south end was created from a log jam.

**Special Management Designations or Considerations:**

Cedar River and Brill Brook.

**Watershed and Fisheries Considerations:**

NLMMU – Northern Lake Michigan Management Unit: This compartment is divided into western and eastern regions. There are no fisheries concerns in the eastern region. The western region of this compartment contains the Main Branch of the Cedar River, Brill Brook, and additional unnamed waterbodies which serve as tributaries to the Main Branch of the Cedar River. The Main Branch of the Cedar River is a designated Type 4 trout stream greater than 50' width. A 100' plus 5' per 1% increase in slope; buffer is recommended to protect Cedar River riparian areas in accordance with Best Management Practices. For Brill Brook and additional waterbodies which serve as tributaries to the Main Branch of the Cedar River: a 100' plus 5' per 1% increase in slope buffer is recommended to protect these areas in accordance with Best Management Practices.

**Wildlife Habitat Considerations:**

- The Big Cedar River, which flows through the west side of the compartment, is the main habitat feature.
- Riparian corridor. Maintain the narrow river buffer to promote large trees, standing snags, cavities, and dead woody debris for wildlife habitat near the river.
- The west side of the compartment is early successional forest dominated by aspen and grass openings.
- wildlife will benefit from aspen stand treatments, which promote age class diversity and young forests.

- The center of the compartment is largely red pine and white pine forest.
- The east side of the compartment is centered on the 7-Mile Marsh Road and is largely cedar swamp, hemlock, and bog. Maintaining closed canopy will provide wildlife with winter cover.

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

The nearest active non-metallic mineral production is located more than three miles away, but there is some gravel potential within the compartment on the upland drumlins. There does not appear to be significant potential for bedrock non-metallic minerals. No economic oil and gas production has been found in the UP. There is no history of mineral leasing in this area. Metallic mineral potential appears to be low.

### **Vehicle Access:**

The western portion of this compartment (west of the river) has poor access and is only reachable via private property. The areas to the east of the Cedar River have good access from County Road 551 and the 7 Mile Marsh Road.

### **Survey Needs:**

Survey corners may be needed for treatments this YOY.

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

No developed facilities are within this compartment, however this compartment provides many recreational opportunities including hunting, camping and hiking.

### **Fire Protection:**

Access to the west of the river is limited by private property, however roads are in good shape coming off of private land. Fire access to the east of the river is good with the exception of the land in the south portion of section 36. There are no significant control problems foreseen due to the lack of explosive fuels and an abundance of natural fuel breaks, such as low wet stands of timber and lowland brush. Low wet areas will impede fire suppression as well as fire spread.

### **Additional Compartment Information:**

\*\*\*\* Cover type details, proposed treatments and stands designated as FDF are listed in the attached reports:

Cover Type by Age Class  
 Cover Type by Management Objective  
 Compartment Volume Summary  
 Proposed Treatments – No Limiting Factors  
 Proposed Treatments – With Limiting Factors

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

Base feature information, stand numbers, cover types  
 Proposed treatments  
 Proposed road access system

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

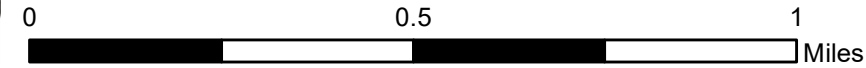
**Total Acres by Cover Type and Age Class**  
**Cover Type by Harvest Method**  
**Proposed Treatments – No Limiting Factors**  
**Proposed Treatments – With Limiting Factors**  
**Stand Details (Forested and Nonforested)**  
**Dedicated and Proposed Special Conservation Areas**  
**Site Condition Details**

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

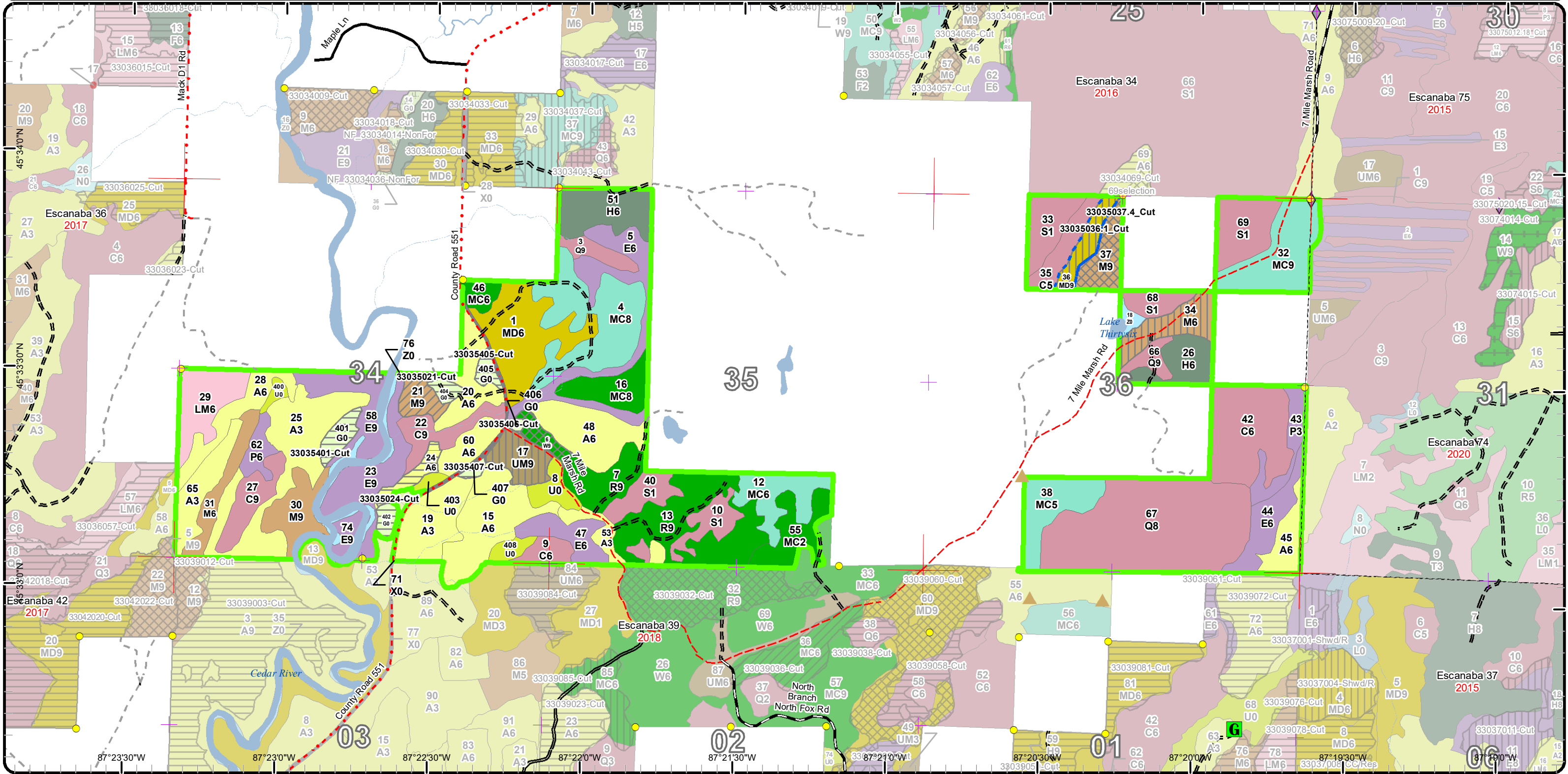
**Base feature information, stand boundaries, cover types, and numbers**  
**Proposed treatments**  
**Site condition boundaries**  
**Details on the road access system**

# Cover Type & Treatments Map

Compartment: 35  
 T37N - R52W Sec. 34-36  
 County: Menominee  
 Unit: Escanaba  
 Mgmt Area: Green Bay Lake Plain  
 YOE: 2020  
 Acres: 865 GIS Calculated  
 Examiner: Dan Racine  
 Map Revised: 6/26/2018  
 Map Phase: Pre-Review

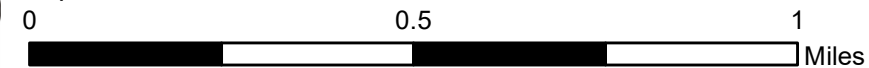
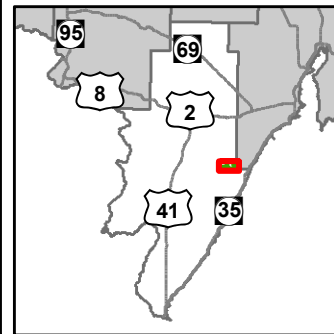


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- Lakes

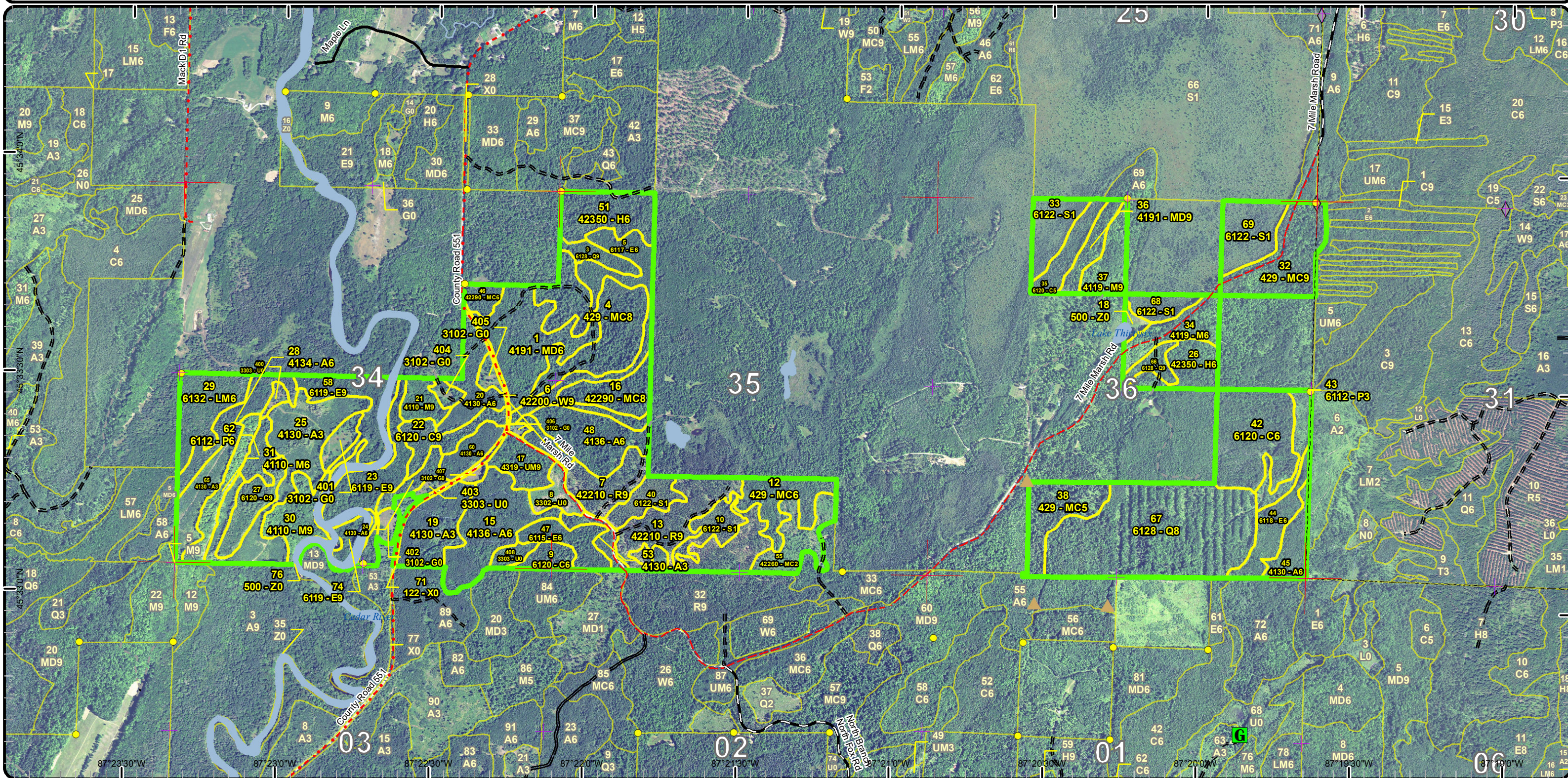


# Stand Boundary Map

Compartment: 35  
 T37N - R52W Sec. 34-36  
 County: Menominee  
 Unit: Escanaba  
 Mgmt Area: Green Bay Lake Plain  
 YOE: 2020  
 Acres: 865 GIS Calculated  
 Examiner: Dan Racine  
 Map Revised: 6/26/2018  
 Map Phase: Pre-Review

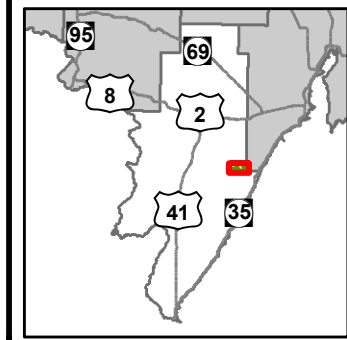
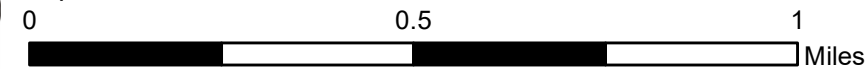


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- ▭ Compartment Boundary
- ▭ Stand Boundaries
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
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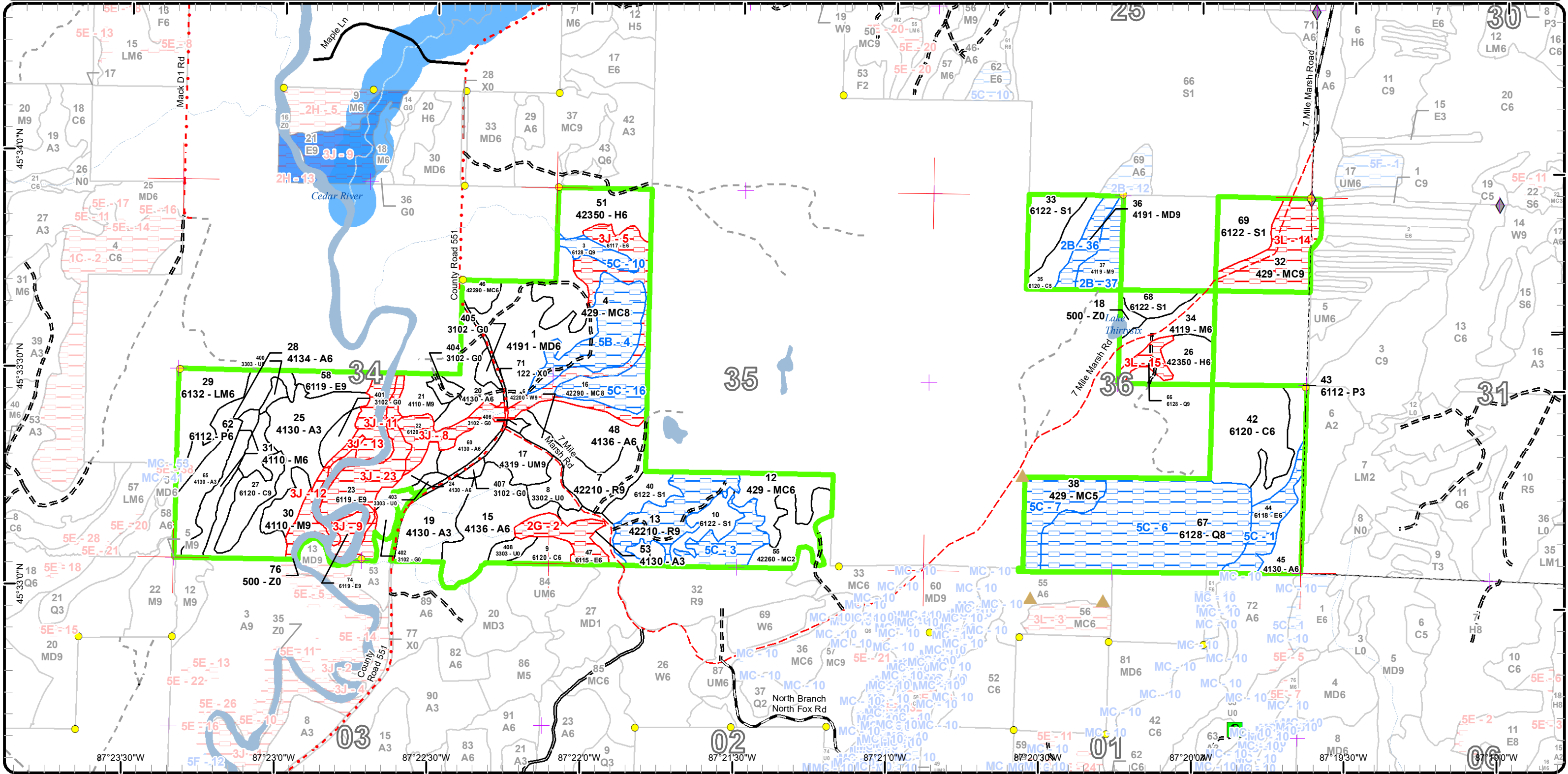


# Special Conservation Areas & Site Conditions Map

Compartment: 35  
 T37N - R52W Sec. 34-36  
 County: Menominee  
 Unit: Escanaba  
 Mgmt Area: Green Bay Lake Plain  
 YOE: 2020  
 Acres: 865 GIS Calculated  
 Examiner: Dan Racine  
 Map Revised: 6/26/2018  
 Map Phase: Pre-Review



- Miris Corners
  - + Remonumented Section Corners
  - Survey Grade Corners
  - ◆ Field Grade Corners
  - Compartment Boundary
  - Available w/ Constraints
  - Unavailable
  - 3L: Other wildlife concerns
  - Stand Boundaries
  - Cold Water Streams
  - Cold Water Lakes
  - High Priority Trout Stream Buffer
  - Riparian Area
- 5B: Maintain for regeneration purposes  
 5C: Delay treatment for age/size class diversity or exceptional site quality  
 2G: Too wet (sensitive soils, does not include access issues)  
 3J: Water quality / BMPs (stream, river, or lake)



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	49	28	39	50	5	0	0	0	0	0	0	0	0	0	0	0	0	171
Cedar	0	0	0	0	0	0	0	0	0	6	53	0	0	0	11	0	0	0	70
Hemlock	0	0	0	0	0	0	0	0	0	0	0	18	0	12	0	0	0	0	30
Herbaceous Openland	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Low-Density Trees	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Aspen/Balsam Poplar	0	0	9	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Lowland Conifers	0	0	0	0	0	0	0	0	0	75	0	0	0	5	6	0	0	0	86
Lowland Deciduous	0	0	0	0	0	0	0	13	25	11	0	0	25	0	0	0	17	0	91
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	18
Lowland Spruce/Fir	0	0	0	0	38	16	0	0	0	0	0	0	0	0	0	0	0	0	54
Mixed Upland Deciduous	0	0	0	30	0	0	0	0	8	0	0	0	0	0	0	0	0	0	38
Natural Mixed Pines	0	14	0	0	0	0	0	0	0	5	0	13	0	0	0	0	0	0	32
Northern Hardwood	0	0	0	0	0	0	0	0	48	0	0	0	0	0	0	0	7	0	55
Red Pine	0	0	0	0	0	0	14	36	0	0	0	0	0	0	0	0	0	0	50
Upland Conifers	0	0	0	15	0	0	0	0	0	17	0	37	0	25	0	0	0	0	93
Upland Mixed Forest	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	10
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
White Pine	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	4
<b>Total</b>	<b>48</b>	<b>63</b>	<b>37</b>	<b>84</b>	<b>56</b>	<b>43</b>	<b>16</b>	<b>19</b>	<b>49</b>	<b>91</b>	<b>114</b>	<b>71</b>	<b>68</b>	<b>25</b>	<b>42</b>	<b>17</b>	<b>0</b>	<b>24</b>	<b>864</b>



## Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 35  
Total Compartment Acres: 865

Commercial Harvest - 53  
Harvests with Site Condition - 18  
Next Step Harvest - 0  
Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	5	0	0	0	0	0	0	0	0	5
Herbaceous Openland	13	0	0	0	0	0	0	0	0	13
Mixed Upland Deciduous	0	0	0	0	8	0	0	0	0	8
Northern Hardwood	0	11	0	0	13	7	0	0	0	31
Upland Mixed Forest	0	0	0	0	10	0	0	0	0	10
White Pine	0	5	0	0	0	0	0	0	0	5
<b>Total</b>	<b>18</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>31</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>72</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	72	0	0	0	0	0	0	0	0	72
Next Step	0	0	0	0	0	0	52	0	13	65
<b>Total</b>	<b>72</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>52</b>	<b>0</b>	<b>13</b>	<b>136</b>



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
6	33035006-3-New	4.5	42200 - Natural White Pine	Sawtimber Well	66	81-110	Harvest	Group Selection	4220 - Natural White Pine	Two-Aged	Proposal

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

Prescription Selection: Cut all trees except pine. Mark the pine to a residual in the stand of 60-80 BA. This harvest will regenerate the existing short-lived species and open up for additional pine regeneration.

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable White Pine and mixed deciduous and conifer species.

Other  
Comment:

Proposed Start Date: 10/01/2019

17	33035017-2-New	10.4	4319 - Mixed Upland Forest	Sawtimber Well	81	81-110	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Two-Aged	Proposal
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**Habitat Cut:** No      **Site Condition:**

Prescription Shelterwood-Seed with retention: Cut all trees except do not cut any hemlock and do not cut any white pine 18 inches and greater dbh. Retention patches will be left intact by this harvest. Determine at time of sale prep the proper residual pine diameter to leave in order to provide seed source and shelter above existing regeneration. Protect to extent possible the existing regeneration. This harvest will regenerate without losing the shorter-lived species component.

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable Any mix of the overstory species.

Other  
Comment:

Proposed Start Date: 10/01/2019

21	33035021-Cut	7.0	4110 - Sugar Maple Association	Sawtimber Well	81	141-170	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	Proposal
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**Habitat Cut:** No      **Site Condition:**

Prescription Thinning: Retain in the 90-110 BA range thinning the stand from above and below. Create regeneration harvests in subsequent treatment periods.

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable Any overstory species mix.

Other No harvesting of hemlock within this stand.

Proposed Start Date: 10/01/2019

24	33035024-Cut	5.0	4130 - Aspen	Poetimber Well	42	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut:** No      **Site Condition:**

Prescription Clearcut with retention: Leave retention along the boundary line along the river corridor. Leave out any younger non-merchantable areas that would be along the opening and against stand 53 of compartment 39. This harvest will help to keep variation of age classes of aspen acreage within the compartment.

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable Aspen, maple, mixed conifers.

Other  
Comment:

Proposed Start Date: 10/01/2019





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
34	33035034-5-New	13.3	4119 - Mixed Northern Hardwoods	Poletimber Well	81	111-140	Harvest	Shelterwood	4319 - Mixed Upland Forest	Two-Aged	Proposal

**Habitat Cut: No Site Condition:**

Prescription Specs: Shelterwood: Harvest in the hardwood areas leaving a residual of approximately 40 BA. Leave residual hardwood trees in the thickest of hemlock areas to keep harvesting out or decide to red line retention areas out. Leave the hemlock and pine except may mark some for operability and poor and declining. This harvest will enhance the regeneration of short lived species maintaining diversity of species within stand.

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

Treatments:

Acceptable Regen: Any mix of the overstory species.

Other Comment:

This stand was already marked in some portions. May be best to use green paint and ignore the orange paint except those pine/hemlock that are marked.

Proposed Start Date: 10/01/2019

36	33035036.1_Cut	7.5	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	89	111-140	Harvest	Shelterwood	4319 - Mixed Upland Forest	Two-Aged	Proposal
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**Habitat Cut: No Site Condition: Unknown Access**

Prescription Specs: Cut all but Hemlock, Cedar and save a few Beech. Some of the Hemlock and Cedar may have to be harvested in order to operate within the sale area. The best access is from private to the south. This stand is limited factor due to access. This harvest will enhance the regeneration the overstory species.

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

Treatments:

Acceptable Regen: Mixed conifer species, maple, beech and mix of the overstory component.

Other Comment:

Other Comment:

Other Comment:

Proposed Start Date: 10/01/2019

37	33035037.4_Cut	11.0	4119 - Mixed Northern Hardwoods	Sawtimber Well	81	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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**Habitat Cut: No Site Condition: Unknown Access**

Prescription Specs: Stand of mixed maple, beech, bass, some popple, Birch & Beech. Save the hemlock, and some minor component species. Mark stand down to residual of 70-90BA. Long term MO of mixed M & F. This harvest will enhance the stand quality and regeneration of existing overstory species. This was previously prescribed and stand is factor limited due to access.

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

Treatments:

Acceptable Regen: Maple and mixed conifer and any overstory species component.

Other Comment:

Other Comment:

Other Comment:

Proposed Start Date: 10/01/2019

401	33035401-Cut	5.1	3102 - Grass	Nonstocked	Unspecified		Harvest	Clearcut	310 - Herbaceous Openland		Proposal
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**Habitat Cut: No Site Condition:**

Prescription Specs: Clearcut: Cut all trees 2 inches and larger.

Next Step:

NonForestMgt, Other - Specify

Treatments:

Acceptable Regen: None. Non forest management

Other Comment:

This stand is being harvested for the future potential of:

Comment: Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only)), fertilizing and liming, brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others.

Proposed Start Date: 10/01/2019



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
402	33035402-Cut	2.9	3102 - Grass	Nonstocked		Unspecified	Harvest	Clearcut	310 - Herbaceous Openland		Proposal

**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut: Cut all trees 2 inches and larger.

Specs:

Next Step Treatments: NonForestMgt, Other - Specify

Acceptable Regen: None Non Forest

Other The purpose of this treatment is to:

Comment: Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only)), fertilizing and liming, brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others.

Proposed Start Date: 10/01/2019

404	33035404-Cut	2.7	3102 - Grass	Nonstocked		Unspecified	Harvest	Clearcut	310 - Herbaceous Openland		Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut: Cut all trees 2 inches and larger.

Specs:

Next Step Treatments: NonForestMgt, Other - Specify

Acceptable Regen: None Non Forest management.

Other The purpose of this treatment is for:

Comment: Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only)), fertilizing and liming, brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others.

Proposed Start Date: 10/01/2019

405	33035405-Cut	2.7	3102 - Grass	Nonstocked		Unspecified	Harvest	Clearcut	310 - Herbaceous Openland		Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut: Cut all trees 2 inches and larger.

Specs:

Next Step Treatments: NonForestMgt, Other - Specify

Acceptable Regen: None. Non Forest Management.

Other The purpose of this treatment is for:

Comment: Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only)), fertilizing and liming, brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others. use of this treatment is to:

Proposed Start Date: 10/01/2019



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
406	33035406-Cut	0.9	3102 - Grass	Nonstocked		Unspecified	Harvest	Clearcut	310 - Herbaceous Openland		Proposal

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

Prescription Clearcut: Cut all trees 2 inches and larger dbh.

Specs:

Next Step NonForestMgt, Other - Specify  
Treatments:

Acceptable None. The purpose is opening maintenance.  
Regen:

Other The purpose of this treatment is for opening maintenance which will follow the harvest with a potential of:  
Comment: Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only)), fertilizing and liming, brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others.

Proposed Start Date: 10/01/2019

407	33035407-Cut	1.2	3102 - Grass	Nonstocked		Unspecified	Harvest	Clearcut	212 - Non-tilled Herbaceous Agriculture		Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut: Cut all trees 2 inches and larger.

Specs:

Next Step NonForestMgt, Other - Specify  
Treatments:

Acceptable None. Maintenance for non-forest conditions.  
Regen:

Other The purpose of this treatment is for the potential of: Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only)), fertilizing and liming, brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others.

Proposed Start Date: 10/01/2019

**Total Treatment  
Acreage Proposed: 74.2**

## Report 4 – Site Conditions

Escanaba Mgt. Unit  
Dan Racine : Examiner

Compartment: 35  
Year of Entry: 2020

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		2B	5B	5C	2G	3J	3L	
172	172	0	0	Aspen							
70	59	0	11	Cedar					11		
31	31	0	0	Hemlock							
15	15	0	0	Herbaceous Openland							
13	13	0	0	Low-Density Trees							
15	15	0	0	Lowland Aspen/Balsam Poplar							
86	0	81	5	Lowland Conifers			81				5
90	7	13	70	Lowland Deciduous			13	11	59		
18	18	0	0	Lowland Mixed Forest							
54	54	0	0	Lowland Spruce/Fir							
38	30	8	0	Mixed Upland Deciduous	8						
32	19	13	0	Natural Mixed Pines			13				
55	38	11	6	Northern Hardwood	11					6	
50	14	36	0	Red Pine			36				
96	17	54	25	Upland Conifers		37	17				25
10	10	0	0	Upland Mixed Forest							
4	4	0	0	Urban							
15	2	0	12	Water					12		
5	5	0	0	White Pine							
867	523	215	129	Total Forested Acres	19	37	160	11	88	30	
	60%	25%	15%	Relative Percent							

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Escanaba Mgt. Unit

Dan Racine : Examiner

Compartment: 35

Year of Entry: 2020

2	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	36	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Available</b>	5B: Maintain for regeneration purposes	25	2D: Portable Bridge Needed (Dept. bridge will be adequate)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	75	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Escanaba Mgt. Unit  
Dan Racine : Examiner

Compartment: 35  
Year of Entry: 2020

8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

## Report 4 – Site Conditions

Escanaba Mgt. Unit  
Dan Racine : Examiner

Compartment: 35  
Year of Entry: 2020

14	Unavailable	3L: Other wildlife concerns	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Unavailable	3L: Other wildlife concerns	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	20	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
36	Available	2B: Unknown if access through adjacent landowner(s) is possible	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
37	Available	2B: Unknown if access through adjacent landowner(s) is possible	11	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

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

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

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

Conservation Area	Type	Description
SCA	Cold Water 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	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	30.1	28	Immature	All but pine cut in 1990. This could be a pine or aspen stand. The east portion of the stand has low ground black spruce which is the spruce in the sub canopy about 4 acres in size that was harvested in 1990 as well. A3/(F-W)2 - W4-W7-M4 areas as well.
3	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	5.6	141	111-140	Thick cedar to the east and pockets of higher hemlock to west. Scattered hemlock in the remainder. 70% of the stand is cedar and hemlock. May be able to harvest short lived species with stand 51 when that is ready.
4	429 - Mixed Upland Conifers	Sawtimber Medium	36.5	111	51-80	Trace amount of cedar and black ash in the canopy. NORTH end thick mixed WP/RP/ some Cedar/Hem as you go south in stand it gets more open with mainly white pine and hemlock overstory scattered and in clumps with over the top of spruce, pine, fir, maple and aspen regen. W7-W4 over (W-F-A-M)3. Allow regeneration to continue here and look to cut with stand 1.
5	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	25.1	122	81-110	Brills brook through fingers. Tag alder in portions. I aged a green ash at 122, previous inventory was older. Pockets of pure black ash with timber on the edge of the slope of the drainage.
6	42200 - Natural White Pine	Sawtimber Well	4.5	66	81-110	This is a white pine stand with basal area ranges from 70 to 120.
7	42210 - Natural Red Pine	Sawtimber Well	13.9	67	81-110	Stand was thinned in 2012 on contract 028-10-01. Residual BA post harvest was 76. Currently running between 81-110 with the lower wet areas between 40-60 and higher residual areas up to 110. Look into managing this red pine with red pine in compartment 39 next treatment period and consider regeneration harvests in some portions.
9	6120 - Lowland Cedar	Poletimber Well	5.5	93	111-140	More lowland ash to the north end in the transition between stand 47 and 9.
10	6122 - Black Spruce	Sapling Poor	10.0	46	Unspecified	Leatherleaf treed bog same as stand 40
12	429 - Mixed Upland Conifers	Poletimber Well	15.0	24	1-50	This could be several stands with individual upland areas broken out from lowland shrub areas. Most are too small to break out. 50/50 mix lowland/upland call for overall stand.
13	42210 - Natural Red Pine	Sawtimber Well	35.9	78	81-110	Stand was thinned in 2012 on contract 028-10-01. Some of this stand is on lower ground with leatherleaf. Manage with stand 32 of compartment 39 when that comes available.
15	4136 - Aspen, Mixed Conifer	Poletimber Well	27.7	35	51-80	
16	42290 - Natural Mixed Pine	Sawtimber Medium	12.6	111	51-80	There is an old road that enters this stand from the west side off the 7 mile marsh road through stand 48. This area was cut in 1990 under Brill Brook Block with all trees cut except pine, cedar, hemlock and maple <5 inches. Crane mats or temporary bridge may or may not be required to get into stand on existing road when this stand gets harvested.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
17	4319 - Mixed Upland Forest	Sawtimber Well	10.4	81	81-110	The harvest should result in significant residual pine and pockets of hemlock. Treatment is a mix of clearcut with retention/group selection, shelterwood-seed.
19	4130 - Aspen	Sapling Well	18.3	22	Immature	Small creek/drain through south end of stand. Scattered W of various sizes left. Open areas as seen on imagery has significant amount of white pine along edges of open areas.
20	4130 - Aspen	Poletimber Well	13.4	17	Immature	Stand Year Origin was 2001. Mostly aspen about 3-5 inches dbh. Retention pocket down in the hole.
21	4110 - Sugar Maple Association	Sawtimber Well	7.0	81	141-170	Nice quality maple in areas. Thick stand of mixed sugar maple, beech, bass & a few hemlock. Previously prescribed for harvest last treatment period and dropped during pre-review. Could not get an age on the sugar maple.
22	6120 - Lowland Cedar	Sawtimber Well	10.9	141	141-170	Cedar river Riparian Corridor. BRILL BROOK FLOWS THRU. Mixed Cedar, YB, E, Fs, Fb & H. West end is very dense.
23	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	19.7	81	111-140	Cedar river flood plain. Sensitive fern with mixed Ash, silver maple, soft maple. Varies from E4-E6 some has LO understory.
24	4130 - Aspen	Poletimber Well	5.1	42	81-110	This stand appears to be variable ages. Younger timber around the opening and patches of older 10+ inch aspen to the south end.
25	4130 - Aspen	Sapling Well	36.2	6	Immature	Stand was cc in 2012 on contract 030-10-01.
26	42350 - Upland Hemlock	Poletimber Well	12.3	136	171-200	Mixed super canopy white pine & red pine over hemlock, maple & cedar. Dense stand for the most part.
27	6120 - Lowland Cedar	Sawtimber Well	11.1	101	111-140	The North end had some hardwood and cedar removed in ~ 1988. South end is thicker with some Fs, Fb, B, ash & YB mixed in. Could not age the cedar used previous inventory.
28	4134 - Aspen, Spruce/Fir	Poletimber Well	13.1	30	Immature	Trace amount of ironwood in the canopy. More lowland to the south with balm and higher ground to the north with aspen. This stand may be ready next treatment period.
29	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	17.9	102	141-170	SE End more lowland ash similar to stand 57 of compartment 36 with more cedar. The NE portion has ~ 3 Ac red maple M type with smaller diameters and poor quality 1-2 stick maple over F3 regen. Majority is mixed cedar, hemlock, maple & BirchShould. Creek runs through stand to the east line between stand 29 and 28. Aged a cedar and red maple.
30	4110 - Sugar Maple Association	Sawtimber Well	13.2	81	81-110	Stand was thinned in 2012 on contract 030-10-01. Portion of the stand along the cedar river is not thinned and has silver maple along the river edge. Portion of the stand is site condition for buffer along the cedar river.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
31	4110 - Sugar Maple Association	Poletimber Well	10.2	81	81-110	Stand was thinned in 2012 on contract 030-10-01. Higher residual toward the north end of the stand.
32	429 - Mixed Upland Conifers	Sawtimber Well	25.3	130	141-170	This stand was previously prescribed and the decision was not to harvest during pre-review. The cedar and hemlock runs at 55-65% of the stand with areas that are very dense. The east portion runs heavier to cedar and the diameters are large. In order to harvest a considerable amount of hemlock and cedar would have to be taken.
33	6122 - Black Spruce	Sapling Poor	12.1	45	Unspecified	This is changed to 25% canopy however it is still a treed bog.
34	4119 - Mixed Northern Hardwoods	Poletimber Well	13.3	81	111-140	M6, H7, W-R-7. C4 mixed stand.
35	6120 - Lowland Cedar	Poletimber Medium	9.3	107	1-50	Where the cedar is heavy it runs between 150-200 BA of cedar and a minor component of older species. In the transition between 33 and 35 and open areas it is scattered paper birch and more lowland brush.
36	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	7.5	89	111-140	Long term MO of mixed Q, H, C, B & M. access will be tricky, best is from private to the south. Havent contacted private landowner to see about access.
37	4119 - Mixed Northern Hardwoods	Sawtimber Well	11.0	81	111-140	Mixed maple, beech, basswood and some popple, Birch & Beech. Long term MO of mixed M & F. Stand factor limited due to access, best is from the south but I havent contacted the landowner for permission.
38	429 - Mixed Upland Conifers	Poletimber Medium	17.4	98	51-80	The stand was cut in the fall of 2001. All the aspen, balm, birch, mixed hardwood, and balsam fir was cut along with the spruce over 7 inches dbh. Some pine was marked to cut. The result is patchy to thick pockets of cedar, hemlock and pine mixed with open areas that are regenerating to mixed conifer, balm, ash, and aspen. Manage for understory. Pocket of Phragmites found.
40	6122 - Black Spruce	Sapling Poor	8.6	46	Unspecified	This is a treed leatherleaf Bog. There is plenty of trees to call 25-50% canopy closure as it is filling in as a black spruce stand.
42	6120 - Lowland Cedar	Poletimber Well	32.9	105	111-140	Dense cedar stand in many places with 140-200 BA. 5 strips were cut in the past are now regenerating to understory. These were cut in ~ 1965. Maple stumps have been heavily browsed.
43	6112 - Lowland Aspen	Sapling Well	9.1	13	Immature	Cut winter of 04-05' Some scattered C and H.
44	6118 - Lowland Deciduous with Cedar	Poletimber Well	12.8	78	81-110	OI Stand Year Origin was 1940. In the next treatment period or 2 at the latest this stand or at least some portions can be cut along with stand 45 and 67 can be cut.
45	4130 - Aspen	Poletimber Well	9.4	39	1-50	ORV Trail through stand. A few scattered spruce. Curently an A6 small pole stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	42290 - Natural Mixed Pine	Poletimber Well	4.8	93	81-110	Some areas could use a light thin but most will hold OK 10-20 yrs. Some larger WP over mixed pine, fir & some maple and aspen. Treat with stand 1, 2, 4 & 16.
47	6115 - Lowland Ash	Poletimber Well	10.7	99	51-80	
48	4136 - Aspen, Mixed Conifer	Poletimber Well	21.0	28	1-50	Patches/Retention patches of White Pine, Hemlock, and Red maple and other species throughout. Main stand is the regenerating aspen.
51	42350 - Upland Hemlock	Poletimber Well	18.4	115	81-110	This stand was cut in 1998 under the Gourley Dump Block sale. In this stand all merchantable trees cut except cedar/hemlock/pine/spruce with the exception of some pine were marked, hemlock and cedar were allowed to be cut if necessary, and spruce greater than 10Inches dbh were allowed to be cut. The result is this stand with regeneration in some areas, timber to cut mixed in the hemlock and cedar in others and mix of spruce/fir throughout. Merchantable timber here and there but not much to do at this point.
53	4130 - Aspen	Sapling Well	6.9	17	Immature	Stand was clearcut except for cedar & pine in winter of 01'. 10 BA residual overstory regenerating to a mix of A, P ,W & Q.
55	42260 - Natural Pine, Mixed Deciduous	Sapling Medium	14.4	5	Immature	Stand was seed tree cut in 2012 on contract 028-10-01. Long term MO of mixed W,R,F & M. Shelterwood prior to this harvest. Regeneration from prior harvest and some post 2012 harvest. A few red pine seedlings.
58	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	16.6	100	81-110	Cedar river Riparian Corridor. Mixed silver maple, red maple, green ash, black ash. Varies from E4-E9.
60	4130 - Aspen	Poletimber Well	8.1	17	1-50	Residual pine was left in the stand.
62	6112 - Lowland Aspen	Poletimber Well	5.7	30	51-80	Mixed P3/Q2/F2 and some scattered cedar.
65	4130 - Aspen	Sapling Well	13.0	6	Immature	Stand was cc in 2012 on contract 030-10-01. No retention was left.
66	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	5.0	136	111-140	Quite a bit of cedar has blown over along NW edge. Blowdown areas have Q2-Q3 regeneration. Other areas dense cedar and hemlock mixed with M & E.
67	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	75.4	98	51-80	Strips cut that were done in 1966 -73 with residual timber left. Strip cuts that show up on imagery done in winter of 2004/2005. The block of solid timber in the southwest portion is 75+% cedar. The block in the south portion is 75+% hemlock and white pine. These two blocks may end up being broken out as separate stands in time. The strips in 2004/2005 are about 25% regeneration overall with some very spotty areas of regeneration. Where there is timber from previous strips it is holding up now, look to harvest with stand 55 of compartment 39 to the south.

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Escanaba Mgt. Unit

Report 7 – Forested Stands

Compartment: 35  
Year of Entry: 2020



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
<b>68</b>	6122 - Black Spruce	Sapling Poor	6.8	45	1-50	Previously typed as a bog, this is a treed bog stand.
<b>69</b>	6122 - Black Spruce	Sapling Poor	16.2	54	Unspecified	Treed bog along the 7 mile marsh road.
<b>74</b>	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	4.9	81	111-140	Cedar river riparian corridor. Major log jam at bend in river. West edge of stand which was stand 63 is now stand 30 is upland M9/M6. East end which is stand 74 in Ox bow is E6/E9 with green and black ash and silver maple.



Stand	Cover Type	Acres	Managed Site	General Comments:
8	3302 - Low Density Conifer Trees	6.2		Stand was clearcut in 2012 on contract 028-10-01. This stand is seeding in nicely with black spruce, white pine, and balsam fir. Scattered larger diameter white pine left. Acceptable regeneration of white pine, mixed conifers, and black spruce.
18	500 - Water	2.3	No	Portion of Lake 36 and surrounding wetland with water filled in at times.
71	122 - Road/Parking Lot	4.4	No	County Rd. 551
76	500 - Water	12.2	No	Cedar river
400	3303 - Mixed Low Density Trees	1.9	No	Mix of balsam fir, white spruce, black cherry, aspen, and red maple that are within an opening not managed.
401	3102 - Grass	5.1	No	Grass opening but scattered black cherry, balsam fir, aspen on edge
402	3102 - Grass	2.9	Yes	Opening used by USF&WS as a campsite when doing lamprey control.
403	3303 - Mixed Low Density Trees	1.7	No	wildfire 1978. Low density trees with white pine, black cherry, aspen, balsam fir, white spruce.
404	3102 - Grass	2.7	Yes	
405	3102 - Grass	2.7	No	
406	3102 - Grass	0.9	No	Used as camping site in the fall.
407	3102 - Grass	1.2	No	OPIC - FMD: OI Stand Year Origin was
408	3303 - Mixed Low Density Trees	3.3	No	Lowland low density trees with balsam fir, white pine, black ash, white spruce, tag alder, black ash, and willow.