



# Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33113

Entry Year 2021

Acreage: 2,163

County Menominee

Management Area: Menominee End Moraine

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**Revision Date:** 2019-07-02

**Stand Examiner:** Dustin Salter

**Legal Description:**

T37N R28W Sections 3, 4, 5, 6, 8, 9, 10, 16, & 21.

**Identified Planning Goals:**

The primary covertypes within this compartment are: aspen, upland mixed deciduous, white pine, and lowland spruce and cedar. The aspen age classes are well balanced within the compartment. The mature aspen stands will be harvested, along with some younger ones to help to spread out the age classes. A number of lowland spruce/tamarack stands will also be harvested. The tamarack is dying out due to the eastern larch beetle. And the spruce is mature. The spruce budworm has caused a significant amount of spruce/fir mortality over the past decade. The remaining merchantable spruce/fir will be harvested before all volume is lost. There were 5 stands with a higher percentage of spruce/fir approved for harvest in 2016 as part of the spruce budworm review. Three of these stands were already harvested. Another large aspen stand was delayed for treatment after the last review five years to help spread out the aspen age classes. The majority of this stand has been cut, but there is still about 15 acres to harvest. Some of the white pine stands that haven't been thinned recently will be thinned to improve the size and start to regenerate the stand. Deer have heavily browsed and killed most of the maple and oak sprouts from harvests last decade. The larger harvest areas have regenerated better. The lowland conifer stands that were harvested last entry period are regenerating well. There have been some treatments to treat Oak Wilt epi-centers in the past. If oak wilt is identified again, treat it as necessary.

**Soil and topography:**

This compartment is mostly level with some rolling hills. The upland sites consist primarily of Pemene fine sandy loam and the lowland sites are comprised of Lupton, Cathro, and Tawas mucks.

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

This compartment is part of a band of state forest land that extends for about 20 miles along the Menominee River, with this compartment on the North end of this band. There is more state land to the south of this compartment and another block a couple of miles to the east. The private land around the compartment is a mix of permanent residences, camps, and agricultural lands. This surrounding area is used primarily for hunting, agriculture, camping and ATV riding.

**Unique Natural Features:**

Menominee River, including Pemene Falls is adjacent to the compartment. Pemene Creek flows through the southern end of the compartment. There is also a Hillside Prairie in the adjacent Menominee River State Recreation Area.

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

Ruins in the Pemene Falls and potential archeological sites along the river.

**Special Management Designations or Considerations:**

Menominee River State Recreation Area is adjacent to the west side of this compartment. There is a stewardship plan for the Recreation Area.

**Watershed and Fisheries Considerations:**

The Menominee River is near the compartment, with the Pemene and Kading Creeks flowing through the compartment and into the Menominee River. The Menominee River has a mix of species available for fishing and the Pemene Creek has trout fishing.

**Wildlife Habitat Considerations:**

This compartment is being managed under the guidelines contained in the "Menominee River Natural Resources Area" and will work to compliment management of the adjacent property, "Menominee River State Recreation Area". Both plans provides guidance on protecting the natural and scenic qualities of the land while providing public access for recreation. Aspen covers 59% of the compartment, approximately 313 acres are proposed for treatment this year of entry. Many treatments include conifer or oak retention to ensure a quality, and diverse stand.

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

Active sand/gravel pits are not located in the area, but there may be some sand & gravel potential within the compartment on upland areas. In other places, bedrock is at or near the surface consisting of a mix of early Paleozoic sandstone and Precambrian igneous and metamorphic rocks. The compartment is north of the Back Forty project and south of the East Menominee Iron District. There is a history of metallic mineral leasing just south of the compartment, but no leases have been recorded in the compartment. A mineral test well was drilled just northwest of the compartment. Metallic mineral potential beneath the compartment is currently unknown. There is no known potential for economic hydrocarbon production in the UP. There is an active gravel pit within section 4.

## **Vehicle Access:**

The majority of the compartment is accessible from the North State road which is a county road that runs north-south through this compartment. There are a number of two track roads that branch off from the county road. A number of these roads have been bermed, as part of the original management plan to limit access.

## **Survey Needs:**

Two or three registered corners will need to be set, to prepare the proposed treatments.

## **Recreational Facilities and Opportunities:**

Within the state recreation area there is the Gerald Welling Access site on the Menominee River. Adjacent to the compartment Faithorn Township has a rustic campground surrounded by state land. There are also a number of unimproved camping area in and around the compartment. This area is heavily used for hunting, camping, trapping, ATV riding, and boating/canoeing.

## **Fire Protection:**

This area consists of large areas of dry sites which have the potential for larger fires. Also, with the heavy mortality of the spruce/fir from the spruce budworm there is potential for increased fire activity in these areas. There are a number of water sources within the compartment and access is good throughout.

## **Additional Compartment Information:**

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

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

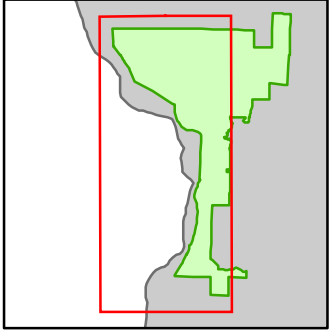
### **The following information is displayed, where pertinent, on the attached compartment maps:**

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

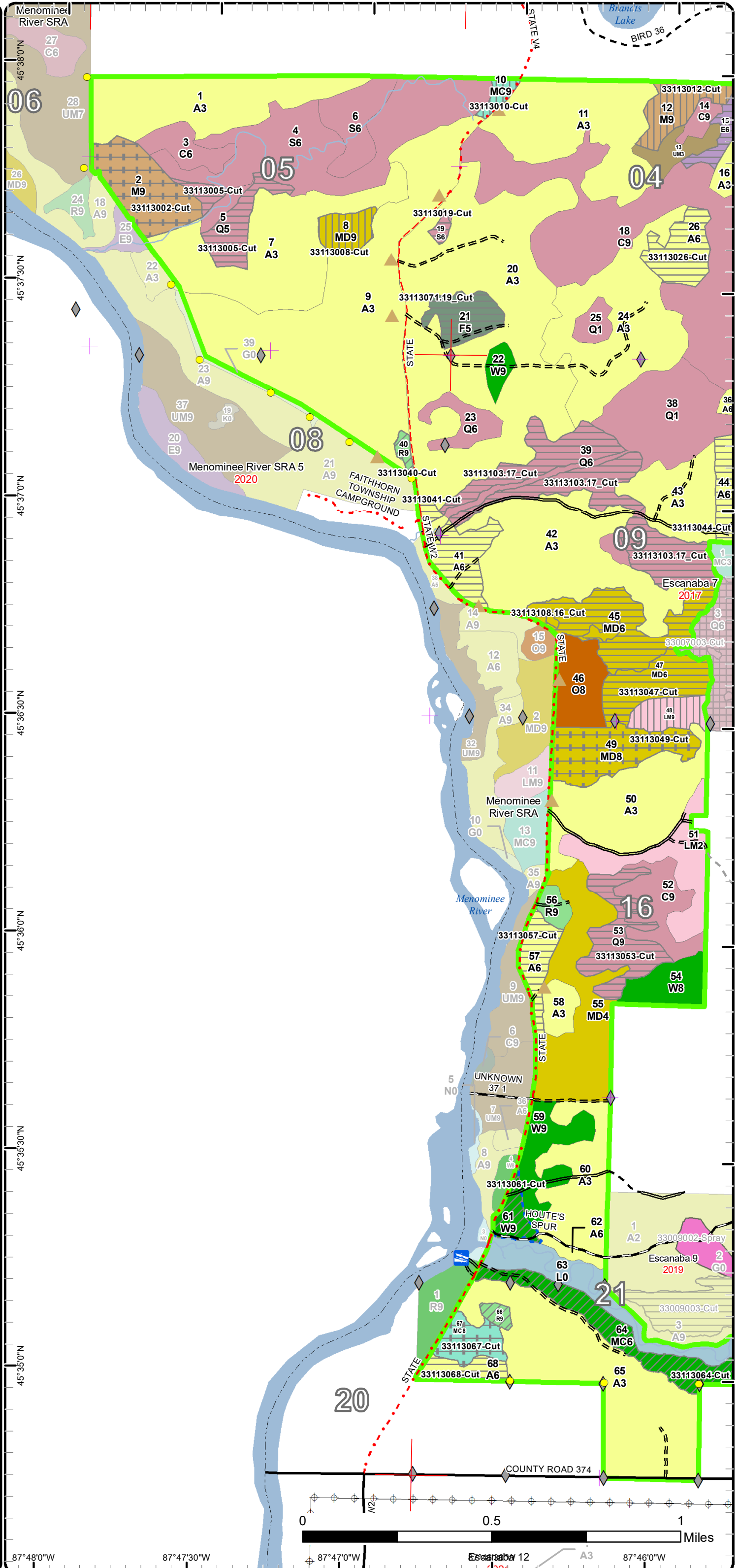
# Cover Type & Treatments Map

Compartment: 113

County: Menominee  
 Unit: Escanaba  
 Mgmt Area: Menominee End Moraine  
 YOE: 2021  
 Acres: 2,163 GIS Calculated  
 Examiner: Dustin Salter  
 Map Revised: 11/14/2019  
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Boating Access Site
- ⊕ Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 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
- 622 - Lowland Shrub



87°48'0"W      87°47'30"W      87°47'0"W      Escanaba 12      87°46'0"W



# Stand Boundary Map

Compartment: 113

County: Menominee

Unit: Escanaba

Mgmt Area: Menominee End Moraine

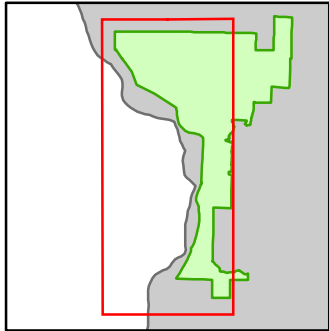
YOE: 2021

Acres: 2,163 GIS Calculated

Examiner: Dustin Salter

Map Revised: 11/14/2019

Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- = DNR - Forest Access Route
- Federal / State / County - Paved Road
- - Federal / State - Dirt / Gravel Road
- · - County - Gravel Road
- - County - Dirt Road (Seasonal)
- - Private - Dirt / Gravel Road
- Lake/Pond
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- ⚓ Boating Access Site
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- Stand Boundaries
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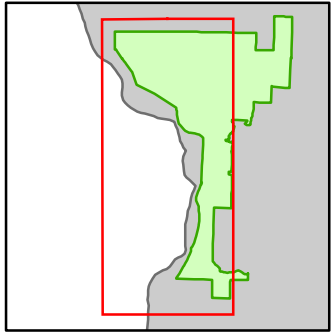




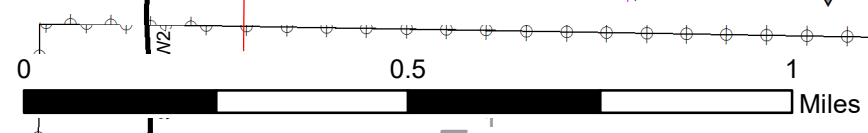
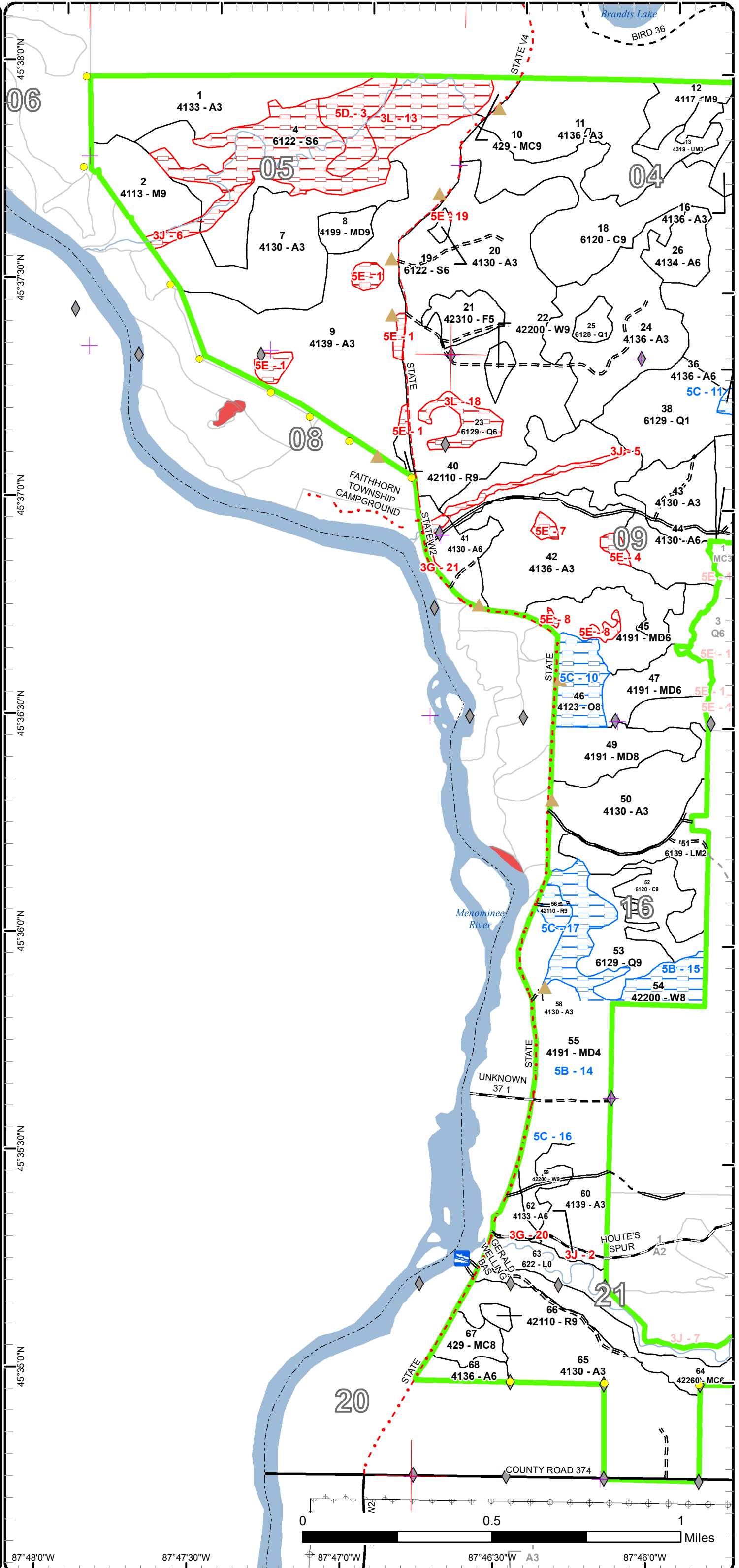
# Special Conservation Areas

Compartment: 113

County: Menominee  
 Unit: Escanaba  
 Mgmt Area: Menominee End Moraine  
 YOE: 2021  
 Acres: 2,163 GIS Calculated  
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- Miris Corners
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- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Boating Access Site
- ⊕ Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- ▭ Stand Boundaries
- ▭ Ecological Reference Areas
- ▭ Cold Water Streams



87°48'0"W      87°47'30"W      87°47'0"W      87°46'30"W      87°46'0"W



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	571	313	0	0	216	59	20	4	0	0	0	0	0	0	0	0	0	1183
Cedar	0	0	0	0	0	0	0	0	0	0	11	0	20	0	150	0	0	0	181
Lowland Conifers	0	66	0	0	0	0	0	0	0	0	82	0	102	0	0	0	0	0	250
Lowland Deciduous	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	11
Lowland Mixed Forest	0	28	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	38
Lowland Shrub	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	93	0	0	0	0	0	0	0	93
Mixed Upland Deciduous	0	0	0	0	0	0	57	0	0	0	87	0	0	0	0	0	0	0	144
Natural Mixed Pines	0	0	0	0	0	0	0	0	33	0	8	0	8	0	0	0	0	0	49
Northern Hardwood	0	0	0	0	0	0	0	0	0	6	27	14	0	0	0	0	0	0	47
Oak	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	19
Red Pine	0	0	0	0	0	0	7	2	0	0	0	0	0	0	0	0	0	0	9
Upland Conifers	0	0	0	0	0	0	0	0	0	0	3	0	11	0	0	0	0	0	14
Upland Mixed Forest	0	12	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Upland Spruce/Fir	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	13
White Pine	0	0	0	0	0	0	0	0	0	0	5	0	41	0	0	0	0	0	46
<b>Total</b>	<b>47</b>	<b>677</b>	<b>322</b>	<b>0</b>	<b>0</b>	<b>216</b>	<b>136</b>	<b>22</b>	<b>37</b>	<b>17</b>	<b>335</b>	<b>14</b>	<b>192</b>	<b>0</b>	<b>150</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2165</b>





## Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 113

Total Compartment Acres: 2,163

Commercial Harvest - 547  
 Harvests with Site Condition - 7  
 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	188	0	0	0	0	0	0	0	0	188
Lowland Conifers	127	0	0	0	0	0	0	0	0	127
Lowland Deciduous	11	0	0	0	0	0	0	0	0	11
Lowland Mixed Forest	0	0	0	0	10	0	0	0	0	10
Lowland Spruce/Fir	2	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	54	0	0	0	9	0	27	0	0	90
Natural Mixed Pines	0	0	0	0	0	40	0	0	0	40
Northern Hardwood	0	0	0	0	20	0	27	0	0	47
Red Pine	0	0	0	0	0	5	0	0	0	5
Upland Conifers	0	0	0	0	3	0	11	0	0	14
Upland Spruce/Fir	13	0	0	0	0	0	0	0	0	13
White Pine	0	0	0	0	0	7	0	0	0	7
<b>Total</b>	<b>394</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>42</b>	<b>52</b>	<b>65</b>	<b>0</b>	<b>0</b>	<b>554</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	554	0	0	0	0	0	0	0	0	554
Next Step	0	13	13	0	0	13	444	0	0	484
<b>Total</b>	<b>554</b>	<b>13</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>444</b>	<b>0</b>	<b>0</b>	<b>1038</b>





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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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**Proposed Treatments:**

<b>2</b>	<b>33113002-Cut</b>	27.4	4113 - R.Maple, Conifer	Sawtimber Well	95	1-50	Harvest	Overstory Removal	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than 4" inches; except mark some pine to retain for seed and diversity.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, maple, pine, and spruce/fir.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
<b>5</b>	<b>33113005-Cut</b>	15.9	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	95	51-80	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than 3" inches; except retain a 100' buffer along Kading Creek.</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> Tamarack, spruce, balm, balsam fir, pine, cedar and ash.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
<b>8</b>	<b>33113008-Cut</b>	8.8	4199 - Other Mixed Upland Deciduous	Sawtimber Well	95	111-140	Harvest	Shelterwood	42201 - Natural White Pine, Mixed Deciduous	Two-Aged	No
<p><u>Prescription</u> Cut all trees greater than 3" inches; except mark to retain 20 to 30 basal area to retain. The residual trees will be a mix of species, but with a higher percentage of oak, pine, and birch.</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> Aspen, pine, birch, maple, and oak.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</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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10	33113010-Cut	3.3	429 - Mixed Upland Conifers	Sawtimber Well	95	111-140	Harvest	Shelterwood	42201 - Natural White Pine, Mixed Deciduous	Two-Aged	No
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Prescription Cut all trees greater than 3" inches; except mark to retain 20 to 30 basal area of pine for seed and partial shade.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Pine, maple, aspen, and spruce/fir.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

12	33113012-Cut	14.1	4117 - Mixed N. Hardwood - Pine	Sawtimber Well	104	1-50	Harvest	Shelterwood	42201 - Natural White Pine, Mixed Deciduous	Two-Aged	No
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Prescription Cut all trees greater than 3" inches; except mark to retain 20 to 30 basal area for seed and partial shade for conifer regeneration. The residual trees will be a mix of the current species.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Pine, maple, aspen, oak, basswood, beech, and spruce/fir.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

15	33113015-Cut	10.6	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	83	81-110	Harvest	Clearcut with Retention	6111 - Lowland Balsam Poplar	Even-Aged	No
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Prescription Cut all trees greater than 3" inches; except mark to retain some white pine seed trees.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Balm, birch, spruce, balsam fir, tamarack, and white pine.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020





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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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17	33113017-Cut	5.8	4119 - Mixed Northern Hardwoods	Sawtimber Well	83	81-110	Harvest	Shelterwood	4319 - Mixed Upland Forest	Two-Aged	No
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Prescription Cut all trees greater than 3" inches; except mark to retain 20 to 30 basal area of hardwood and pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, maple, spruce/fir, pine, beech, and basswood.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

19	33113019-Cut	1.7	6122 - Black Spruce	Poletimber Well	95	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
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Prescription Cut all trees greater than 3" inches; except retain the patch of dense cedar on the north end.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Spruce, tamarack, cedar, and pine.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

26	33113026-Cut	15.9	4134 - Aspen, Spruce/Fir	Poletimber Well	48	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Cut all trees greater than 3" inches. No retention will be retained, due to forest health concerns.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, balsam, spruce/fir, and tamarack.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

30	33113030-Cut	30.0	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	116	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Two-Aged	No
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Prescription Cut all trees greater than 3" inches; except retain all cedar. Also, retain a buffer along Blom Creek on the east side of the stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Spruce, tamarack, pine, cedar, balsam, and balsam fir.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020





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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>31</b>	<b>33113031-Cut</b>	8.7	4134 - Aspen, Spruce/Fir	Poletimber Well	46	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Cut all trees greater than 3" inches; except retain a buffer in the southeast along Blom Creek. Only a very small portion of the stand is near Blom Creek.  
Specs:

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

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

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

<b>34</b>	<b>33113034-Cut</b>	23.7	4134 - Aspen, Spruce/Fir	Poletimber Well	46	51-80	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
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Prescription Cut all trees greater than 3" inches; except retain the white pine.  
Specs:

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

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

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

<b>36</b>	<b>33113036-Cut</b>	61.8	4136 - Aspen, Mixed Conifer	Poletimber Well	48	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Cut all trees greater than 3" inches; except mark to retain some pine seed trees. Also, retain enough retention patches to have 3% retention.  
Specs:

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

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

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

<b>37</b>	<b>33113037-Cut</b>	7.7	42290 - Natural Mixed Pine	Sawtimber Well	110	141-170	Harvest	Crown Thinning	42290 - Natural Mixed Pine	Two-Aged	No
-----------	---------------------	-----	----------------------------	----------------	-----	---------	---------	----------------	----------------------------	----------	----

Prescription Mark stand down to 80 to 90 basal area. Cut all merchantable aspen, maple, and spruce/fir. If goshawk nest is active leave a buffer around nest.  
Specs:

Next Step  
Treatments:

Acceptable white pine, red pine, and maple.  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2020





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

40	33113040-Cut	2.2	42110 - Planted Red Pine	Sawtimber Well	66	111- 140	Harvest	Low Thinning	42110 - Planted Red Pine	Two-Aged	No
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Prescription Cut all species greater than 3" inches; except mark the pine to cut. Reduce the residual basal area down to 70 to 80. Some areas of the stand will be at this stocking level after the shorter lived species are harvested.

Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

41	33113041-Cut	18.9	4130 - Aspen	Poletimber Well	69	81-110	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
----	--------------	------	--------------	--------------------	----	--------	---------	----------------------------	--------------------------------	-----------	----

Prescription Cut all trees greater than 3" inches; except mark to retain some pine and oak for seed and aesthetics. Also, retain a buffer along the creek that flows through the north half of the stand.

Specs:

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

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

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

44	33113044-Cut	39.1	4130 - Aspen	Poletimber Well	50	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Cut all trees greater than 3" inches; except retain all white and red pine and oak.

Specs:

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

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

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

47	33113047-Cut	20.6	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	58	51-80	Harvest	Clearcut	4134 - Aspen, Spruce/Fir	Even-Aged	No
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Prescription Cut all trees greater than 3" inches. No retention will be retained due to forest health concerns.

Specs:

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

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

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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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>48 33113048-Cut</b>	10.2	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	110	81-110	Harvest	Shelterwood	6132 - Mixed Lowland Forest with Cedar	Two-Aged	No
<p><u>Prescription</u> Cut all trees greater than 3" inches; except do not cut cedar.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Balm, aspen, spruce/fir, birch, pine, and ash.  <u>Regen:</u>  <u>Other Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>49 33113049-Cut</b>	26.9	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	97	1-50	Harvest	Overstory Removal	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than 4" inches; except mark to retain some pine and oak seed trees.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> Aspen, balm, oak, pine, maple, and spruce/fir.  <u>Regen:</u>  <u>Other Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>53 33113053-Cut</b>	23.6	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	95	51-80	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than 3" inches; except retain all cedar.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Tamarack, spruce, balm, aspen, balsam fir, cedar, and white pine.  <u>Regen:</u>  <u>Other Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</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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57	33113057-Cut	11.9	4139 - Aspen, Mixed Deciduous	Poletimber Well	55	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Cut all trees greater than 3" inches; except retain a buffer along the creek. Also, mark to retain some scattered pine and oak.  
Specs:

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

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

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

61	33113061-Cut	7.1	42200 - Natural White Pine	Sawtimber Well	110	141-170	Harvest	Crown Thinning	4220 - Natural White Pine	Uneven-Aged	No
----	--------------	-----	----------------------------	----------------	-----	---------	---------	----------------	---------------------------	-------------	----

Prescription Mark the pine and oak down to 80 to 90 basal area, cutting all other species.  
Specs:

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

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

Other  
Comment:

Site Condition Other Influence Zones

Proposed Start Date: 10/1 /2020

64	33113064-Cut	32.6	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	74	81-110	Harvest	Crown Thinning	42200 - Natural White Pine	Uneven-Aged	No
----	--------------	------	---------------------------------------	-----------------	----	--------	---------	----------------	----------------------------	-------------	----

Prescription Mark pine and oak down to 80 basal area. Cutting all other merchantable species. Maintain 70% canopy closure along Pemene Creek.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

66	33113066-Cut	2.6	42110 - Planted Red Pine	Sawtimber Well	54	171-200	Harvest	Crown Thinning	42110 - Planted Red Pine	Even-Aged	No
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Prescription Thin stand down to 140, marking the pine and cutting all other species.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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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
67 33113067-Cut	11.0	429 - Mixed Upland Conifers	Sawtimber Medium	110	1-50	Harvest	Overstory Removal	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than 5" inches; except mark to retain some pine and oak for seed and diversity.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
68 33113068-Cut	8.3	4136 - Aspen, Mixed Conifer	Poletimber Well	53	51-80	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than 3" inches; except mark to retain some pine for seed and diversity.</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> Aspen, pine, spruce/fir, maple, and oak.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										

**Approved Treatments:**

21 33113071.19_Cut	13.3	42310 - Planted Spruce	Poletimber Medium	53	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than 2" inches.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(3yr); SitePrep, Trenching; Planting, Initial Plant; Pesticide, Skidder - Site Prep</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Plant red pine. Approval will need to be obtained to plant.</p> <p><u>Regen:</u></p> <p><u>Other</u> In 2016 due to the Spruce Budworm Outbreak this stand had a treatment added with an Out of Entry Request to minimize loss.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 1 /1 /2016</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
39 33113103.17_ Cut	57.1	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	116	111- 140	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Clearcut with retention: cut all trees 3" dbh and greater except leave buffer along drainage and retain dense cedar patch in the SW corner of stand.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Acceptable regeneration will produce a mixed stand of conifer and deciduous tree species that are currently on site.</p> <p><u>Other Comment:</u> This stand was evaluated for SBW in January 2016 and proposed to treat. WLD approves treatment, but please retain dense cedar patch in the SW corner of stand.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2016</p>										
45 33113108.16_ Cut	33.3	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	57	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Clearcut: cut all trees 3 " dbh and greater except leave 10% in patch retention of areas containing the best quality oak.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Acceptable regeneration of aspen and other species currently of site.</p> <p><u>Other Comment:</u> This stand was evaluated for SBW in January 2016 and proposed to treat. WLD approves with the following addition - MiFi does not show cover type %, but aerial imagery suggests this stand has a decent amount of oak. Please leave a minimum of 10% retention (in patches) of the areas containing the best quality oak. We want to ensure mast production for wildlife post harvest in areas containing mature oak.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 1 /21/2016</p>										

Total Treatment Acreage Proposed: 554.1

## Report 4 – Site Conditions

Escanaba Mgt. Unit  
Dustin Salter : Examiner

Compartment: 113  
Year of Entry: 2021

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions							
		With Condition	Not Available		5B	5C	3G	3J	3L	5D	5E	
1181	1103	57	22	Aspen		57	1	9				12
181	181	0	0	Cedar								
250	193	28	28	Lowland Conifers		28		16	10			3
11	11	0	0	Lowland Deciduous								
38	38	0	0	Lowland Mixed Forest								
47	47	0	0	Lowland Shrub			0	0				
93	2	0	92	Lowland Spruce/Fir					73	18		0
143	90	51	3	Mixed Upland Deciduous	51							3
48	48	0	0	Natural Mixed Pines								
47	47	0	0	Northern Hardwood				0				
19	0	19	0	Oak		19						
10	5	5	0	Red Pine		5						
14	14	0	0	Upland Conifers								
20	20	0	0	Upland Mixed Forest				0				
13	13	0	0	Upland Spruce/Fir								
46	11	34	1	White Pine	15	19	1					
2,163	1,824	193	146	Total Forested Acres	65	128	2	24	84	18		18
	84%	9%	7%	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	Unavailable	5E: Long-Term Retention	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer along Pemene Creek.							



## Report 4 – Site Conditions

Escanaba Mgt. Unit  
Dustin Salter : Examiner

Compartment: 113  
Year of Entry: 2021

3	<b>Unavailable</b>	<b>5D: Unproductive Forest Land</b>	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Poor quality black spruce stand.							
4	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Denser cedar area retained.							
5	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> There is a small creek/drain that flows through this area and into the Menominee River.							
6	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	7	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This part of the stand was a buffer retained along Kading Creek and will be long term retention.							
7	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention patch.							
8	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Two retention patches with dense mature oak.							
9	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Blom Creek flows through area.							

## Report 4 – Site Conditions

Escanaba Mgt. Unit  
Dustin Salter : Examiner

Compartment: 113  
Year of Entry: 2021

10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	57	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	Unavailable	3L: Other wildlife concerns	73	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	Available	5B: Maintain for regeneration purposes	51	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Escanaba Mgt. Unit  
Dustin Salter : Examiner

Compartment: 113  
Year of Entry: 2021

16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Unavailable	3L: Other wildlife concerns	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	Unavailable	3G: Other Influence zones - See comments	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> An area of this stand contains an archeological site, which needs to be protected. The remainder of the stand maybe harvested.							
21	Unavailable	3G: Other Influence zones - See comments	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> An area of this stand contains an archeological site, which needs to be protected. The remainder of the stand maybe harvested.							

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.
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	4133 - Aspen, Mixed Pine	Sapling Well	54.3	12	1-50	N/A	Stand was clearcut in 2007 on contract 026-06-01. The cedar, hemlock, pine, and white oak was retained. Also, all red oak less than 8" inches was retained. The stand has fully regenerated with aspen, except along the northwest edge where there was a high basal area of residual species. There are 3 dense patches of pine within the stand.																																	
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>55</td> <td>Sapling</td> <td>2</td> <td>12</td> </tr> <tr> <td>White Pine</td> <td>20</td> <td>Log/XLog/Pole</td> <td>16</td> <td>95</td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Pole/Sapling</td> <td>6</td> <td>45</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Quaking Aspen	55	Sapling	2	12	White Pine	20	Log/XLog/Pole	16	95	Balsam Fir	10	Pole/Sapling	6	45	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Blackberry/Raspberry</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	< 5 feet	Sapling	Blackberry/Raspberry	Low	5 - 10 feet	Tall Shrub				
Canopy Species	% Cover	Size Class	DBH	Age																																				
Quaking Aspen	55	Sapling	2	12																																				
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Blackberry/Raspberry	Low	5 - 10 feet	Tall Shrub																																					
2	4113 - R.Maple, Conifer	Sawtimber Well	27.4	95	1-50	N/A	Stand was cut in 2007 on contract 026-06-01. The maple, pine, cedar, and hemlock was retained. The stand is two aged. Mature maple, pine, and spruce/fir over young aspen regeneration. About half of the stand has a dense overstory and the other half that is open is full of aspen regeneration. The overstory should be harvested to release the advanced regeneration. The balsam and spruce are being defoliated by the spruce budworm.																																	
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Blackberry/Raspberry	Medium	5 - 10 feet	Tall Shrub																																					
3	6120 - Lowland Cedar	Poletimber Well	11.2	95	141-170	N/A	Dense moderate quality cedar stand with pockets of spruce and tamarack mixed in.																																	
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4	6122 - Black Spruce	Poletimber Well	73.4	95	111-140	N/A	Good quality black spruce stand with dense areas of tamarack mixed in. The cedar is scattered throughout the stand, but is heavies along the transitions to the upland. There are pockets of the tamarack dying due to the eastern larch beetle. Kading Creek flows through the southern portion of the stand.																																	
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5	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	19.5	95	51-80	N/A	Mature mixed lowland conifer and hardwood stand. The stand had a very high density of tamarack, but about half of the stems have died out from the eastern larch beetle. The open areas of the stand are already seeding in with tamarack, spruce, and balsam fir. Kading Creek flows through the northern half of this stand.																																	
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6	6122 - Black Spruce	Poletimber Well	18.1	95	1-50	N/A	Poor quality black spruce stand with a high amount of cedar seedlings throughout the stand. This stand is slightly better than a treed bog, I am not sure if this stand will ever have enough volume to harvest it.																																	
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7	4130 - Aspen	Sapling Well	67.3	17	Immature	N/A	Stand was clearcut in 2002 on contract 33-023-01-01. The pine and oak was retained. Also, a buffer was retained along Kading Creek in the northwest corner of the stand. Good quality fully stocked aspen regeneration.																																														
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8	4199 - Other Mixed Upland Deciduous	Sawtimber Well	9.0	95	111-140	N/A	Mature white birch and red maple stand. The birch is dying out of the stand, about 1/3rd of it is already dead or has dying tops. The stand should be harvested before all of the birch dies out of the stand.																																														
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9	4139 - Aspen, Mixed Deciduous	Sapling Well	143.4	3	1-50	N/A	Stand was clearcut in 2016, except for the southeastern 32 acres that was cut in 2018 and 2109 on contract 33-035--15. Four retention patches were retained, along with all oak and pine.																																														
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10	429 - Mixed Upland Conifers	Sawtimber Well	3.3	95	111-140	N/A	Mature mixed pine and hardwood stand that is ready to be harvested.																																														
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11	4136 - Aspen, Mixed Conifer	Sapling Well	60.7	5	Immature	N/A	This stand was clearcut in 2014 on contract 025-11-01, except all oak was retained along with some mature pine. This stand has regenerated well with aspen; except ofn the north side that had a higher residual basal area.																																														
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12	4117 - Mixed N. Hardwood - Pine	Sawtimber Well	14.1	104	1-50	N/A	Stand was cut in 2002 on contract 041-01-01. The hardwood and pine was retained. The stand has a higher density of hardwood in the north, a higher density of pine in the south, and a mix in the center of the stand. The areas that were opened up after the last harvest are regenerating with a mix of aspen and spruce/fir. The overstory needs to be reduced to allow for more regeneration.																																														
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<b>13</b>	4319 - Mixed Upland Forest	Sapling Well	8.6	16	Immature	N/A	Stand was clearcut in 2003 on contract 041-01-01. The pine, oak and cedar was retained. About 60% of the stand is upland and is fully stocked with aspen regeneration. The other 40% is lower ground and is fully stocked with conifer regeneration.																																			
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<b>14</b>	6120 - Lowland Cedar	Sawtimber Well	4.3	132	171-200	N/A	Dense high quality cedar stand.																																			
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<b>15</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	10.6	83	81-110	N/A	Mature balm and black ash stand, that had contained a high percentage of spruce/fir, but the majority of it has died out due to the spruce budworm. The stand is ready to be harvested.																																			
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<b>16</b>	4136 - Aspen, Mixed Conifer	Sapling Well	33.7	16	1-50	N/A	Stand was clearcut in 2003 on contract 041-01-01. The pine was marked to cut and some other seed trees were also retained. the stand has fully regenerated with aspen.																																			
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<b>17</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	5.8	83	81-110	N/A	Moderate quality hardwood stand with some dense pockets of balsam fir. The aspen and spruce/fir are over mature and are dying out. The spruce/fir is being defoliated by the spruce budworm. The stand should be harvested to begin to regenerate the stand with aspen and mixed conifer.																																			
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<b>18</b>	6120 - Lowland Cedar	Sawtimber Well	145.6	132	111-140	N/A	The quality of this cedar within this stand varies greatly. The northern half of the stand has higher quality cedar and the southern half is much lower quality and has a much lower density of cedar. There are some areas within the stand that are primarily tamarack, spruce, or lowland hardwood. With the other lowland stands in the vicinity being prescribed for harvest, look to harvest these areas during the next entry period. The tamarack is dying out of the stand, due to the eastern larch beetle.																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
19	6122 - Black Spruce	Poletimber Well	1.8	95	81-110	N/A	Small mature mixed lowland conifer stand that is ready to be harvested.																																
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20	4130 - Aspen	Sapling Well	157.5	8	Immature	N/A	Stand was clearcut in 2010-11 on contract 027-10-01. The pine, oak and cherry was retained. Stand has fully regenerated with aspen.																																
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21	42310 - Planted Spruce	Poletimber Medium	13.2	53	51-80	N/A	White spruce plantation with aspen mixed in. This stand is struggling on this sandy site, along with the presence of the spruce budworm. In 2016 due to the Spruce Budworm Outbreak this stand had a treatment added with an Out of Entry Request to minimize loss. This stand is on contract 33-023-17 to be clearcut. The stand is currently being harvested and should be completed by the May of 2019.																																
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22	42200 - Natural White Pine	Sawtimber Well	4.9	97	51-80	N/A	Stand was thinned in 2011 on contract 027-10-01. All of the short lived species were removed and the pine and oak was marked to cut. The stand has a canopy of large pine and a fully stocked understory of aspen regeneration.																																
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23	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	10.3	95	81-110	N/A	Mature good quality black spruce stand with a mix of other conifer species. This stand is ready to be harvested.																																
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24	4136 - Aspen, Mixed Conifer	Sapling Well	64.5	12	Immature	N/A	Stand was clearcut in 2007-08 on contract 028-06-01. The pine, oak, cedar, and hemlock was retained. The stand has fully regenerated with aspen.																																
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25	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Poor	5.6	8	Immature	N/A	Stand was clearcut in 2011 on contract 027-10-01. Seed trees were left, but they have all blown over or died. The stand is already filling in with balsam, spruce, and tamarack. The south half of the stand has more regeneration at this time.																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>26</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	15.9	48	51-80	N/A	Moderate to low quality aspen stand, that had a high density of balsam fir. The majority of the balsam fir has died out due to the spruce budworm. The stand needs to be harvested while the aspen is vigorous enough to sprout.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Quaking Aspen		55	Pole	9	48	Tag Alder		
White Spruce		10	Pole/Sap/Log	8	48	Low		
Northern White Cedar		10	Log/Pole	10	104	5 - 10 feet		
Black Spruce		10	Pole/Sap/Log	8	48	Tall Shrub		
<b>27</b>	42290 - Natural Mixed Pine	Sawtimber Well	8.2	95	51-80	N/A	Stand was cut in 2003 on contract 041-01-01. The stand is two aged, mature pine in the overstory and a full understory of aspen regeneration. There was a 2 chain buffer retained around a goshawk nest in this stand during the time of cutting. The nest is still present, but not active in 2019.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
White Pine		45	Log/Pole	16	95	Quaking Aspen		
Red Pine		45	Log/Pole	14	95	High		
						White Pine		
						Medium		
						Balsam Poplar		
						Medium		
						>20 feet		
						Sapling		
<b>28</b>	4319 - Mixed Upland Forest	Sapling Medium	11.6	5	1-50	N/A	Stand was clearcut in 2014 on contract 025-11-01; except all red and white pine over 14" inches was retained. The stand has not regenerated well. The stand had over mature aspen and dying spruce/fir from the spruce budworm. The stand is about half stacked with aspen, balm, and white pine primarily. More conifers and balm will continue to seed in over time. About half of the stand consists of gravel ridges.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Quaking Aspen		30	Sapling	1	5	Tag Alder		
White Pine		20	Sapling	1	5	Low		
White Spruce		10	Sapling	1	5	5 - 10 feet		
Balsam Poplar		20	Sapling	1	5	Tall Shrub		
Balsam Fir		10	Sapling	1	5			
<b>29</b>	4134 - Aspen, Spruce/Fir	Sapling Well	19.3	16	Immature	N/A	Stand was clearcut in 2003 on contract 041-01-01. Some pine and cedar was retained, along with some clumps of advanced spruce/fir regeneration. The stand has fully regenerated with aspen, with a mix of conifer species mixed in.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Quaking Aspen		60	Sapling	2	16	White Pine		
White Spruce		10	Sapling	1	16	Medium		
Balsam Fir		10	Sapling	1	16	5 - 10 feet		
						Sapling		
<b>30</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	37.3	116	81-110	N/A	Good quality lowland conifer stand. The spruce and tamarack are mature and ready to be harvested. The majority of the cedar is in patches and clumps, most of which is in the north half of the stand. The eastern larch beetle has been killing the tamarack and within a few years most of it will have died. About 60% of the stand will be open following the harvest. Blom Creek flows through the east half of the stand.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Black Spruce		40	Pole/Log/Sap	9	116	Balsam Fir		
Tamarack		25	Log/Pole	10	116	Low		
						5 - 10 feet		
						Sapling		
						Tag Alder		
						Medium		
						5 - 10 feet		
						Tall Shrub		
<b>31</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	8.7	46	51-80	N/A	Mature moderate quality aspen stand with a dense understory of balsam fir and spruce. The balsam fir and spruce have been heavily defoliated by the spruce budworm, with an extensive amount of mortality already.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Quaking Aspen		70	Pole/Log/Sap	9	46	Black Cherry		
White Spruce		20	Log/Pole/Sap	10	79	Low		
						>20 feet		
						Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
32	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	28.0	95	1-50	N/A	This stand was cut about 40 years ago. The lower areas and along Blom Creek, which flows through the stand were not harvested. But the higher more upland areas were cut. So, the stand is two aged. The areas that were cut regenerated with balsam fir, spruce, aspen, and balm primarily, but the spruce budworm has killed most of the balsam fir and white spruce leaving the stand not fully stocked. Tamarack and black spruce are seeding into area that are open. Overall this stand has a very low site index and at this time there isn't enough volume to harvest the stand.																																									
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33	4134 - Aspen, Spruce/Fir	Poletimber Well	48.3	40	51-80	N/A	Moderate to low quality aspen stand with a significant amount of balsam fir and spruce in the west half. The spruce/fir has been heavily defoliated by the spruce budworm and most will probably die out of the stand before the next entry period. Most of it is sub-merchantable so it isn't worth trying to salvage it. Cut this stand next entry when the aspen is mature.																																									
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34	4134 - Aspen, Spruce/Fir	Poletimber Well	24.3	46	51-80	N/A	Mixed aspen and white spruce stand. The aspen is moderate quality. The spruce budworm has already killed about half of the spruce that was within the stand, and the remaining spruce has been heavily defoliated. The stand should be harvested while the aspen is vigorous enough to sprout and to salvage the remaining spruce.																																									
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35	6229 - Mixed lowland shrub	Nonstocked	17.8		Unspecified	No	Floodplain of Blom Creek and Pemene Creek which flows into the southern end of the stand. The stand is lowland brush and grass with tamarack saplings and poles.																																									
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36	4136 - Aspen, Mixed Conifer	Poletimber Well	118.4	48	51-80	N/A	Mature to low to moderate quality aspen stand. The east half of the stand is lower quality with smaller diameters and shorter heights. The west is slightly better quality, but still small diameters for its age. The aspen has a significant amount of rot within them. The west side of the stand had a significant amount of spruce/fir, but most of it has been killed by the spruce budworm. To break up the age class of this stand, half will be cut this entry and the other half next entry.																																									
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37	42290 - Natural Mixed Pine	Sawtimber Well	7.7	110	141-170	N/A	Good quality mixed pine stand that is ready to be thinned. There was an active goshawk nest in this stand last entry, but the nest was inactive while doing inventory this entry.																																									
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38	6129 - Mixed Coniferous Lowland Forest	Sapling Poor	60.6	5	Immature	N/A	Stand was seed tree cut in 2014 on contract 026-11-01. Seed tree clumps were left along with cedar greater than 12 inches. Almost all of the residual trees have blown over or died. The stand is regenerating very well with lowland conifers and balm. There are also some cedar seedlings within the stand.																																					
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39	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	64.9	116	111-140	N/A	Stand is on contract 33-023-17 to be clearcut. A creek was buffered in the northern half and a dense area of cedar was retained in the southern half. This treatment was added in 2016 as part of the spruce budworm review.																																					
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40	42110 - Planted Red Pine	Sawtimber Well	2.3	66	111-140	N/A	Red pine and white spruce plantation. The stand is planted in rows with a mix of the red pine and spruce. The spruce is dying out due to the spruce budworm and should be harvested soon to salvage as much as possible. The stand should be managed for red pine.																																					
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41	4130 - Aspen	Poletimber Well	20.3	69	81-110	N/A	Over mature aspen stand. The stand should be harvested while the aspen has enough vigor enough to fully sprout. There is a small creek in the north half of the stand that flows to the Menominee River.																																					
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42	4136 - Aspen, Mixed Conifer	Sapling Well	73.5	11	Immature	N/A	Stand was clearcut in 2007-08 on contract 027-06-01. All species were cut, except the cedar, oak, and maple was retained. Also, some spruce and pine were marked to retain. The stand is fully stocked with aspen regeneration, with a partial overstory of maple, oak, and pine. There isn't enough residual overstory to try and remove to release the understory.																																					
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43	4130 - Aspen	Sapling Well	27.3	8	Immature	N/A	Stand was clearcut in 2011 on contract 026-11-01. The pine, oak, and cherry were retained. Fully stocked aspen stand with a few residual pine and oak.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
44	4130 - Aspen	Poletimber Well	39.1	50	81-110	N/A	Good quality mature aspen stand that is ready to be harvested.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Quaking Aspen		60	Pole/Log	9	50	Hazelnut (Beaked)	
Bigtooth Aspen		20	Pole/Log	9	50	Black Cherry	
						Density	Avg. Height
							Size
45	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	36.1	57	81-110	N/A	Stand is on contract 33-023-17 to be clearcut. There are two retention patches being retained with dense mature oak. This treatment was added in 2016 as part of the spruce budworm review.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Quaking Aspen		15	Pole	9	57	Witch Hazel	
Bigtooth Aspen		20	Pole/Sapling	9	57		
Red Maple		18	Pole/Log	9	97		
Balsam Fir		20	Pole/Sap/Log	8	57		
						Density	Avg. Height
							Size
46	4123 - Red Oak	Sawtimber Medium	19.1	97	1-50	N/A	Stand was cut in 1997 on contract 025-97-01. The oak and pine was retained. This stand is two aged; mature oak and pine in the overstory over aspen and red maple saplings. In the areas of the stand where there was less overstory the aspen regenerated well and where the residual oak are there is just scattered regeneration.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Oak		85	Log/Pole	13	97	Quaking Aspen	
White Pine		10	Log/XLog	16	97	Red Maple	
						Hazelnut (Beaked)	
						Density	Avg. Height
							Size
47	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	20.6	58	51-80	N/A	Low quality aspen and spruce/fir stand. The spruce/fir is dying out of the stand due to the spruce budworm, most of them are heavily defoliated at this time. This stand needs to be harvested before the aspen lacks enough vigor to fully sprout.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Quaking Aspen		30	Pole/Log	9	58	Tag Alder	
Balsam Fir		25	Pole/Sapling	7	58		
White Spruce		10	Pole/Sapling	7	58		
Northern Pin Oak		7	Log/Pole	10	95		
Balsam Poplar		10	Pole	8	58		
						Density	Avg. Height
							Size
48	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	10.2	110	81-110	N/A	Mature mixed lowland stand, with a mix of cedar and lowland hardwoods.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Northern White Cedar		45	Log/Pole	12	110	Balsam Fir	
Balsam Poplar		15	Pole/Log	9		Tag Alder	
Quaking Aspen		10	Pole/Log	9			
Black Ash		15	Pole/Log	8	110		
Black Spruce		10	Pole/Log	9	110		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
49	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	26.9	97	1-50	N/A	Stand was cut in 2004 on contract 034-01-01. All aspen, balm, , balsam fir, and tamarack were cut and the other species were marked to cut. Two aged stand, there is a mature overstory of oak, maple and pine over a fully stocked understory of primarily aspen, balm, and white pine. The overstory should be removed to release the advanced regeneration.																																																										
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50	4130 - Aspen	Sapling Well	51.1	6	1-50	N/A	Stand was clearcut in 2013-14 on contract 030-11-01. All species were cut; except oak, white pine, and red pine. The stand has fully regenerated with aspen, with some scattered pine and oak.																																																										
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51	6139 - Mixed Lowland Forest	Sapling Medium	27.7	7	Immature	N/A	Stand was clearcut in 2012 on contract 030-11-01. All species were cut; except oak and some conifer seed trees. This stand is regenerating with balm and spruce in the lowland and aspen and white pine in the upland. This stand should be fully stocked by the next entry.																																																										
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52	6120 - Lowland Cedar	Sawtimber Well	20.0	110	111-140	N/A	Cedar stand that was strip cut about 40 years ago. There were six strips cut out of this stand. The strips are regenerating with spruce/fir, birch, and balm. The south half of the stand has good quality cedar and the northern half is much lower quality. Next entry look at cutting the shorter lived species out of this stand.																																																										
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53	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	23.6	95	51-80	N/A	Very variable stand. Most of the stand is a mix of mature tamarack and spruce with some younger areas of aspen, balm and spruce/fir. The eastern larch beetle is killing the tamarack and the spruce budworm is killing the spruce/fir. This stand should be harvested soon to salvage as much tamarack and spruce/fir as possible and while the seed is still viable.																																																										
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<b>54</b>	42200 - Natural White Pine	Sawtimber Medium	14.6	119	1-50	N/A	Stand was shelterwood cut in 2014 on contract 030-11-01. All species were cut; except 40 basal area of primarily oak and pine were marked to retain. Some aspen and white pine have regenerated, but they have been heavily browsed. Where the stand is more open the regeneration is growing much better.																																																				
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<b>55</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	50.6	95	1-50	N/A	Stand was shelterwood cut in 2003-04 on contract 034-01-01. The aspen, balm, balsam fir, and tamarack were cut. The other species were marked to cut. This is now a two aged stand. There is about 30 basal area of residual maple, oak, and spruce over a full understory of aspen saplings. This stand will be managed for aspen. There isn't enough overstory to try and remove it for the damage that would be caused to the advanced regeneration.																																																				
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<b>56</b>	42110 - Planted Red Pine	Sawtimber Well	4.8	54	171-200	N/A	Stand was thinned in 2012 on contract 030-11-01. Good quality natural pine stand. The pine was thinned to make the stand appear to be a natural red pine stand.																																																				
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<b>57</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	11.9	55	81-110	N/A	Mature aspen stand with older pine, oak, and maple mixed in. There is quite a bit of white pine regeneration throughout the stand. There is a creek that flows through the middle of the stand into the Menominee River.																																																				
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<b>58</b>	4130 - Aspen	Sapling Well	7.6	5	Immature	N/A	Stand was clearcut in 2014 on contract 030-11-01. All species were cut; except the oak, white pine, and red pine were retained. Fully stocked aspen stand with some residual oak and pine.																																																				
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59	42200 - Natural White Pine	Sawtimber Well	19.3	110	51-80	N/A	Stand was thinned in 2012 on contract 029-11-01. All short lived species were cut and the pine and oak was thinned down to 80 basal area. Good quality white pine stand with a mix of regeneration coming in.																																									
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60	4139 - Aspen, Mixed Deciduous	Sapling Well	34.5	6	Immature	N/A	Stand was clearcut in 2012 (north half) and 2014 (south half) on contract 029-11-01. All species were cut; except some pine and oak were retained. The stand has regenerated well with aspen and a mix of other species. The lowland areas in the center of the stand are filling in with balm and spruce.																																									
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61	42200 - Natural White Pine	Sawtimber Well	7.1	110	141-170	N/A	Mature white pine stand that is in need of a thinning.																																									
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62	4133 - Aspen, Mixed Pine	Poletimber Well	3.5	74	51-80	N/A	Mature aspen stand with a significant amount of white pine regeneration. This stand provides a buffer along Pemene Creek.																																									
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63	622 - Lowland Shrub	Nonstocked	29.6		Unspecified	No	Floodplain of the Pemene Creek, which flows through the center of this stand.																																									
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64	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	32.6	74	81-110	N/A	White pine stand with pockets of mature aspen mixed in. The pine is in need of a thinning.																																									
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65	4130 - Aspen	Sapling Well	88.0	1	Immature	N/A	Stand was clearcut in 2018 on contract 33-024-17. The white pine greater than 22" inches was retained. The stand is regenerating very well with aspen, with it being cut while it was dormant. This treatment was added in 2016 as part of the spruce budworm review.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
<b>66</b>	42110 - Planted Red Pine	Sawtimber Well	2.6	54	171-200	N/A	Stand was thinned in 1992 on contract 032-91-01. High quality planted red pine stand.																																														
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<b>67</b>	429 - Mixed Upland Conifers	Sawtimber Medium	11.0	110	1-50	N/A	Stand was cut in 1992 on contract 030-91-01. There was a mix of species retained, about 40 basal area. The stand is two aged, mature pine and hardwood over young aspen and white pine saplings. The understory needs to be released, so the overstory should be removed.																																														
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<b>68</b>	4136 - Aspen, Mixed Conifer	Poletimber Well	8.3	53	51-80	N/A	Good quality aspen stand with a dense understory of conifer regeneration. The west and east ends are high with a drain flowing down through the center of the stand.																																														
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