



# Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33051

Entry Year: 2026

Acreage: 1,282

County: Menominee

Management Area: Green Bay

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**Stand Examiner:** Dustin Salter

**Legal Description:**

T35N R25W Section's 4 and 9

**Identified Planning Goals:**

This compartment is comprised of many different cover types. The northern half is primarily aspen and upland conifer on ridges that are surrounded by lowland conifers and lowland brush. The southern half of the compartment is mostly upland deciduous. A mix of the different cover types are prescribed for harvest. There are three lowland ash/hardwood stands that will be harvested prior to the ash dying. The emerald ash borer is present and is causing mortality in the mature ash. Two lowland spruce stands will be harvested, regenerating with a mix of conifers. Two natural pine stands will be thinned to improve the growth of the residual stems. Five upland conifer and upland deciduous stands will be harvested, regenerating with a mix of hardwood and conifer species. Deer have heavily browsed and killed most of the ash and maple stump sprouts from harvests over the past twenty years. This has pushed these stands to have a higher percentage of conifer.

**Soil and topography:**

This compartment contains Wainola Fine Sand; Deford-Wainola-Rousseau Complex; Tawas-Deford Association; Loxley-Dawson Association; and Deford Mucky Fine Sand among others. This compartment primarily is composed of black muck, which is poorly drained and fine sand, which is well drained. Terrain is nearly level, with a few rolling hills.

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

This compartment is on the southern end of a block of state land that is approximately 8 miles wide and 20 miles long, that extends into Delta County. This compartment is primarily blocked in with state land. There are only 4 private forties in and around this compartment, with each of them having a hunting camp. Hunting and ORV riding are the primary uses of this area.

**Unique Natural Features:**

Elwood Creek flows through the southern third of the compartment.

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

No Archeological, Historical, or Cultural Features known.

**Special Management Designations or Considerations:**

None

**Watershed and Fisheries Considerations:**

This compartment contains Elwood Creek, a Type 1 Designated Trout Stream, however it has a warmwater stream classification. If any treatments are near a wetland area, best management practices should be incorporated which include a 100' buffer.

**Wildlife Habitat Considerations:**

This 1,282 acre compartment contains a diverse array of lowland and upland cover types, with the largest cover type being lowland shrub, at 16.5%. 192 acres of treatments are proposed this YOY, representing about 15% of the compartment. Of these treatments, 71 acres of clearcuts in lowland deciduous, mixed upland deciduous, and lowland coniferous forest, 27 acres of crown thinning in pine stands, 69 acres of seed tree treatments in northern hardwoods, upland mixes, and lowland coniferous forest, and 24 acres of shelterwood upland conifer stands are planned. Featured species for this compartment include American Woodcock, Wood Thrush, Black Bear, Wild Turkey, and White-tailed Deer. Clearcuts, seed tree, crown thinning, and shelterwood treatments which create young forest condition will benefit all of these species with the exception of the Wood Thrush. No treatments are planned in potential wood thrush habitat.

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

No known potential exists for commercial oil & gas production in this part of the state. The nearest active sand & gravel operations are more than one mile southwest and south including the State-owned Westman Dam Road Pit. The latter has not been leased for commercial use in the last 20 years, and the pit has not been recently assessed for existing and future potential aggregate resources. Most of the compartment consists of low wetlands, which would inhibit surface mining. Some

remote geophysical surveys covering this area have been conducted, and some past mineral test drilling has occurred within one mile of the compartment. No data is currently available on the results of the past exploration efforts. There may be potential for iron ore or other metallic and critical minerals beneath the compartment, but such mineral occurrences would be at significant depth and may not have significant economic value. Additional research/exploration is needed. There is no current leasing activity involving State-owned mineral rights in the area.

**Vehicle Access:**

The Camp "O" Road and Elwood Creek Road provide the main access into the compartment. There are a number of two-track roads that branch off of the two main roads. The Camp "O" Road runs along the southern edge of the compartment and the Elwood Creek Road runs through the northern half.

**Survey Needs:**

No registered corners will need to be set.

**Recreational Facilities and Opportunities:**

A portion of the Forest Island Orv Trail runs through the northeastern corner of the compartment. There are no other developed facilities within the compartment.

**Fire Protection:**

There is a very low probability of a large wildfire in this compartment due to the forested landscape. In the northern portion there are some pine ridges, but they are surrounded by lowland forest types. And in the south, most of the forest contains hardwood. The Elwood Creek provides a water source. The upland areas of the compartment have good vehicle access.

**Additional Compartment Information:**

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

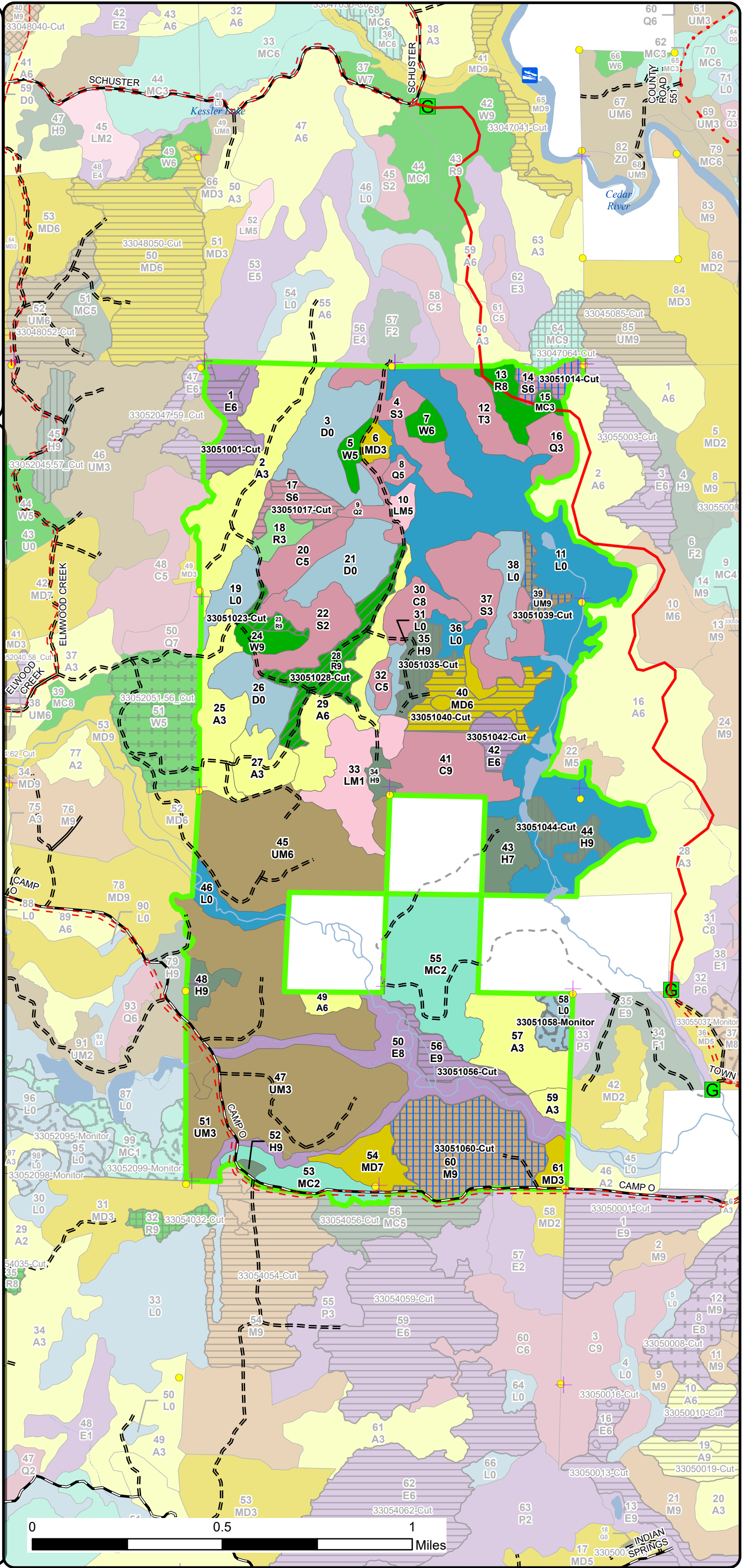
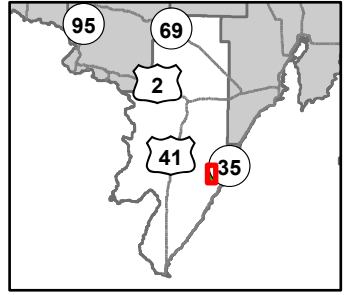
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

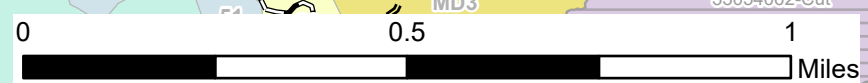
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 33051  
 T35N, R25W, Sec: 4, 9  
 County: Menominee  
 Unit: Escanaba  
 Mgmt Area: Green Bay  
 YOY: 2026  
 Acres: 1282.3 GIS Calculated  
 Examiner: Dustin Salter  
 Map Revised: 10/03/2024  
 Map Phase: Post Review



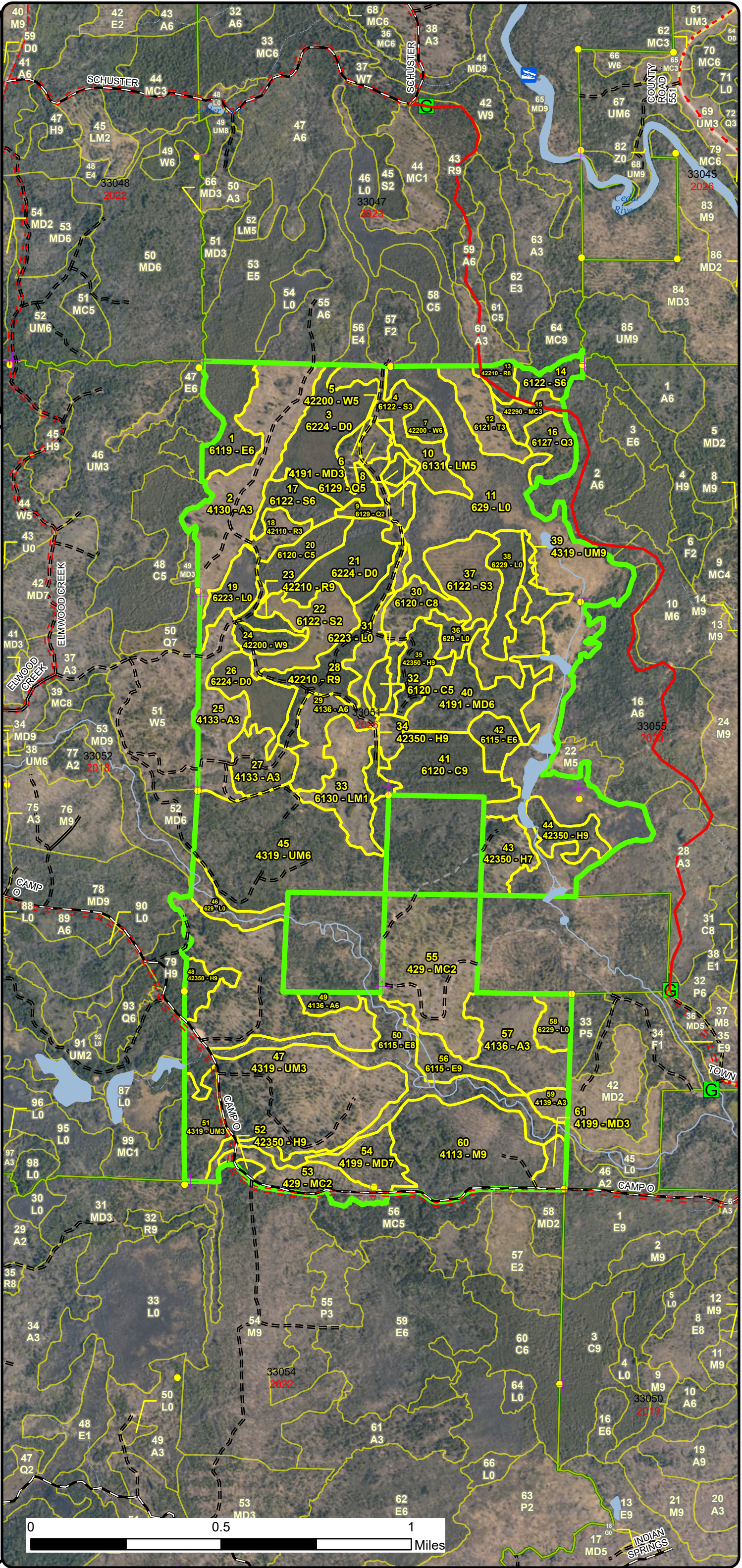
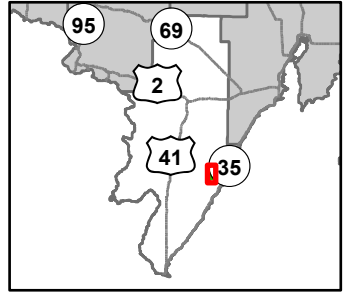
- = Designated ORV Routes
- Designated ATV Trails
- + Remonumented Section Corners
- Survey Grade Corners
- G Gate
- ⚓ Boating Access Site
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- - - DNR - Forest Access Route
- . . - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 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
- 629 - Mixed Non-forested Wetland



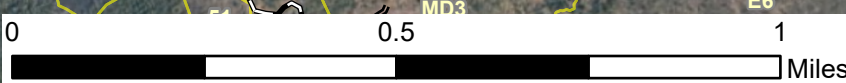


**Stand Boundary Map**

Compartment: 33051  
 T35N, R25W, Sec: 4, 9  
 County: Menominee  
 Unit: Escanaba  
 Mgmt Area: Green Bay  
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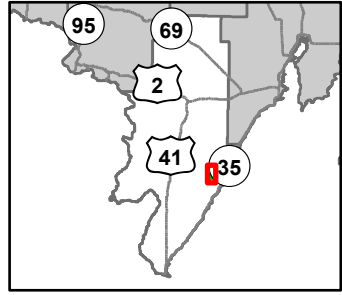


INDIAN SPRINGS

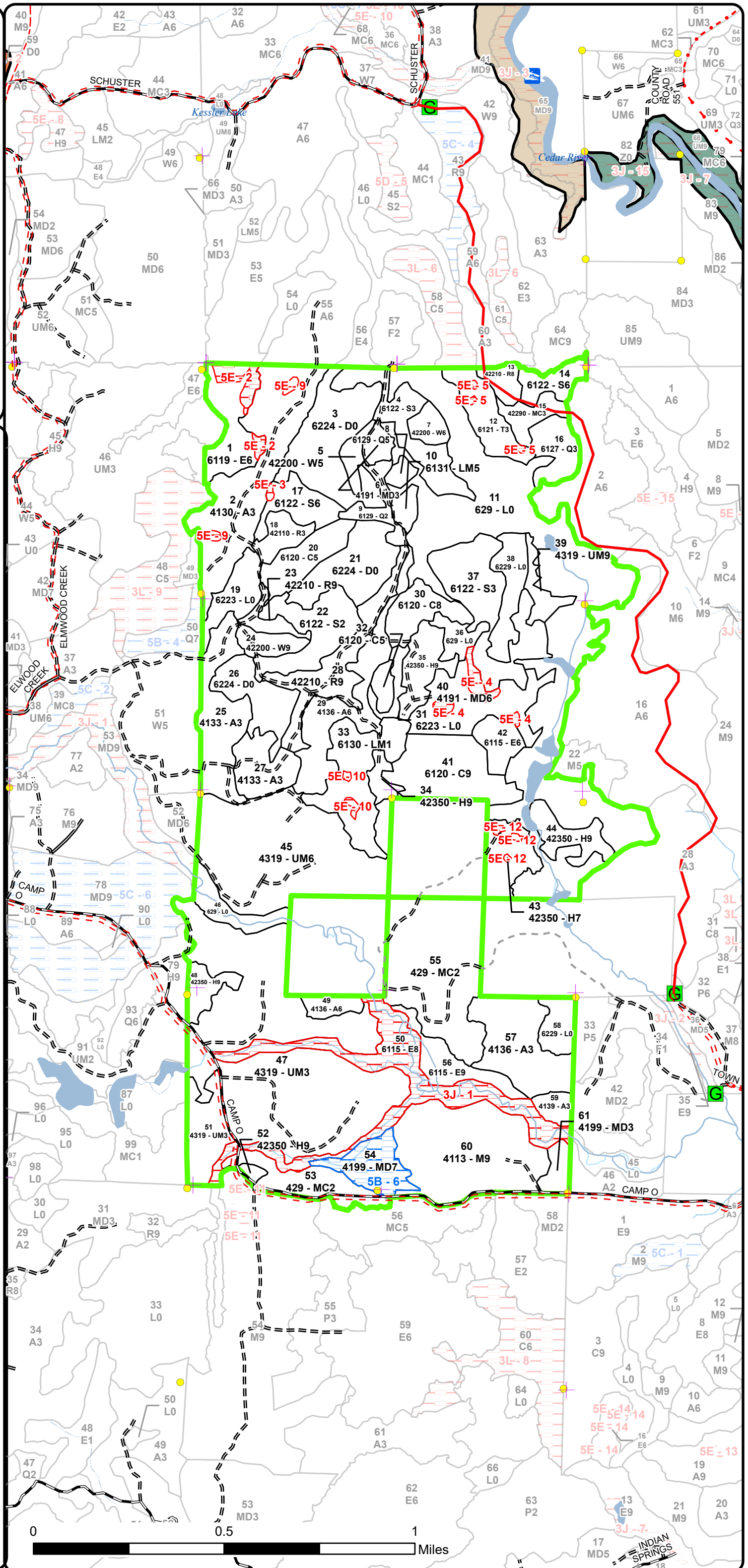


# Special Conservation Areas & Site Conditions Map

Compartment: 33051  
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 Unit: Escanaba  
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- Designated ORV Routes
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- - - Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- SCA
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Available w/ Constraints
- Unavailable
- Stand Boundaries
- Stand Boundaries
- Cold Water Streams
- Vernal Pool
- Other Habitat Area
- Cultural Use Area



0 0.5 1 Miles

INDIAN SPRINGS

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	82	45	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	158
Cedar	0	0	0	0	0	0	0	0	0	0	14	0	0	41	4	0	0	0	59
Hemlock	0	0	0	0	0	0	0	0	0	0	0	2	0	14	35	0	0	0	51
Lowland Conifers	0	0	19	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	22
Lowland Deciduous	0	0	0	0	0	0	0	0	0	21	66	0	0	0	0	0	0	0	87
Lowland Mixed Forest	0	28	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	32
Lowland Shrub	211	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	211
Lowland Spruce/Fir	0	0	77	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	97
Mixed Upland Deciduous	0	0	10	0	0	28	0	0	0	0	0	14	0	0	0	0	0	0	52
Natural Mixed Pines	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	55	0	0	0	0	0	0	54
Red Pine	0	7	0	0	0	0	5	28	0	0	0	0	0	0	0	0	0	0	40
Tamarack	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Treed Bog	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73
Upland Conifers	0	0	0	57	17	0	0	0	0	0	0	0	0	0	0	0	0	0	74
Upland Mixed Forest	0	0	0	0	134	77	0	0	0	0	0	6	0	0	0	0	0	15	232
White Pine	0	0	0	0	0	5	7	5	0	0	0	0	0	0	0	0	0	0	17
<b>Total</b>	<b>284</b>	<b>132</b>	<b>151</b>	<b>57</b>	<b>191</b>	<b>110</b>	<b>12</b>	<b>36</b>	<b>0</b>	<b>21</b>	<b>100</b>	<b>81</b>	<b>0</b>	<b>55</b>	<b>39</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>1282</b>



## Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 51

Total Compartment Acres: 1,282

Commercial Harvest - 192  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Hemlock	0	0	0	0	24	0	0	0	0	24
Lowland Deciduous	36	0	0	0	0	0	0	0	0	36
Lowland Spruce/Fir	12	0	0	8	0	0	0	0	0	20
Mixed Upland Deciduous	24	0	0	0	0	0	0	0	0	24
Northern Hardwood	0	0	0	55	0	0	0	0	0	55
Red Pine	0	0	0	0	0	28	0	0	0	28
Upland Mixed Forest	0	0	0	6	0	0	0	0	0	6
<b>Total</b>	<b>72</b>	<b>0</b>	<b>0</b>	<b>69</b>	<b>24</b>	<b>28</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>192</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	192	0	0	0	0	0	8	0	0	200
Next Step	0	0	0	0	0	0	164	0	0	164
<b>Total</b>	<b>192</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>173</b>	<b>0</b>	<b>0</b>	<b>364</b>



Stand	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>1</b>	<b>33051001-Cut</b>	15.3	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	87	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than three (3) inches at DBH, except retain the smaller diameter portion on the north end and the dense patches of cedar area along the eastern edge. In addition retain all spruce/fir less than seven (7) inches at DBH. Mark to retain some scattered green ash trees for seed and future cavity trees.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Red maple, birch, tamarack, pine, ash, and spruce/fir.</p> <p><u>Other Comment:</u> Mature lowland hardwood stand, with some scattered cedar. The southeast corner of the stand has dense cedar and the northern end has heavier to lowland brush. Emerald ash borer is present and is causing defoliation and mortality. Harvesting this stand now while the ash and other lowland hardwoods are alive, will allow them to stump sprout. This stand will regenerate with a mix of lowland hardwoods and conifers. This stand is in deer conditional range and has a canopy composition of 15% cedar. Harvest of cedar outside of planned retention areas has been agreed upon between FRD and WLD in this stand. This harvest is estimated to produce about 100 cords.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
<b>14</b>	<b>33051014-Cut</b>	8.3	6122 - Black Spruce	Poletimber Well	95	81-110	Harvest	Seed Tree with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than three (3) inches at DBH; except mark to retain some pine seed trees on the narrow upland strips.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Spruce, pine, and tamarack.</p> <p><u>Other Comment:</u> Mature lowland spruce and pine stand. All species are mature and ready to be harvested. Lowland stand with a few narrow upland ridges. This stand will regenerate really well with leaving some pine seed trees and the seeds within the moss layer getting full sunlight and germinating.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
<b>17</b>	<b>33051017-Cut</b>	11.5	6122 - Black Spruce	Poletimber Well	93	51-80	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than three (3) inches at DBH, except retain the dense patch of cedar in the northwest corner of the stand.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Spruce, tamarack, pine, ash, maple and balsam fir.</p> <p><u>Other Comment:</u> Moderate to low quality black spruce in the northern half and a mix of lowland conifers in the southern half. All species are mature and are ready to be harvested. This stand has a dense layer of moss that once the overstory is removed the seeds in the moss will germinate and grow readily. This stand is in deer conditional range and has a canopy composition of 5% cedar. Harvest of cedar outside of planned retention areas has been agreed upon between FRD and WLD in this stand. This harvest is estimated to produce about 30 cords.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</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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23	33051023-Cut	4.7	42210 - Natural Red Pine	Sawtimber Well	65	111-140	Harvest	Crown Thinning	42210 - Natural Red Pine	Uneven-Aged	No
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Prescription Thin stand down to 90 basal area, marking the pine to cut and cutting all other merchantable species.

Specs:

Next Step

Treatments:

Acceptable Red and white pine.

Regen:

Other Comment: Good quality red pine stand with a dense understory of aspen sprouts. Stand was thinned in 2009 on contract 034-06-01. The pine is ready to be thinned again, to improve the growth of the residual stems.

Site Condition:

Proposed Start Date: 10/1 /2025

28	33051028-Cut	22.8	42210 - Natural Red Pine	Sawtimber Well	65	141-170	Harvest	Crown Thinning	42210 - Natural Red Pine	Uneven-Aged	No
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Prescription Thin stand down to 90 to 120 basal area, marking the pine to cut and cutting all other merchantable species. In the areas with larger diameters reduce the basal area down to 90 and in the pole sized areas reduce the basal area down to 120.

Next Step

Treatments:

Acceptable Red and white pine.

Regen:

Other Comment: Overall a very good quality natural red pine stand, that is ready to be thinned again. The average basal area is around 150. The thinning will improve the growth of the residual stems. The stand had its first thinning in 2009 on contract 034-06-01.

Site Condition:

Proposed Start Date: 10/1 /2025

35	33051035-Cut	13.0	42350 - Upland Hemlock	Sawtimber Well	137	111-140	Harvest	Shelterwood with Retention	4312 - Hemlock, Mixed Deciduous	Uneven-Aged	No
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Prescription Cut all trees greater than three (3) inches, except hemlock. Mark to retain some pine seed trees.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Hemlock, pine, maple, birch, and spruce/fir.

Regen:

Other Comment: Mature dense hemlock stand, with some pine and hardwood mixed in. The shorter lived species are mature and should be harvested. The stand is too dense at this time to get regeneration, by opening the stand up more it will allow for more pine, hemlock and red maple regeneration. This stand was last thinned in 2009 on contract 034-06-01.

Site Condition:

Proposed Start Date: 10/1 /2025



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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>39 33051039-Cut</b>	6.2	4319 - Mixed Upland Forest	Sawtimber Well	101	81-110	Harvest	Seed Tree with Retention	42260 - Natural Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) at DBH, except retain all hemlock. Also mark to retain some pine seed trees.</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, maple, pine, birch, and spruce/fir.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mature mixed hardwood and pine stand. All species are mature and ready to be harvested. This stand is an upland sand ridge, with more pine on the north end and more hardwood on the south end. This stand will be seed tree harvested to allow the hardwoods to sprout and the residual conifers to provide seed. This will allow the stand to continue to be a mixed forest type.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>40 33051040-Cut</b>	23.7	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	49	51-80	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH, except retain all hemlock. Also mark to retain some pine, cedar, ash, and yellow birch seed trees. Retain the dense pockets of hemlock and cedar, retaining the other species within them.</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, maple, pine, birch, balm, and spruce/fir.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mature stand with a mix of aspen and red maple, with pockets of conifers. The stand is a two aged stand with 50 year old aspen and fir, with older hardwood, hemlock, and cedar. The majority of the stand is upland, except for an ash drain running through the middle. All species are mature and are ready to be harvested. This stand will be managed for a mix of aspen, hardwood and a mix of conifers. The aspen and hardwoods will sprout following the harvest and the conifers will seed in over time. This stand is in deer conditional range and has a canopy composition of 10% hemlock and 5% cedar. Harvest of cedar outside of planned retention areas has been agreed upon between FRD and WLD in this stand. This harvest is estimated to produce about 40 cords.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>42 33051042-Cut</b>	8.5	6115 - Lowland Ash	Poletimber Well	97	51-80	Harvest	Clearcut with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH, except mark to retain some cedar, birch, maple, and ash seed trees. Also retain all spruce/fir less than seven (7) inches at DBH.</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> Maple, birch, ash, pine, spruce/fir, and tamarack.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mature lowland ash stand, that needs to be harvested prior to the emerald ash borer kills it all. The stand needs to be harvested while the ash and red maple are vigorous enough to stump sprout following the harvest. This stand is in deer conditional range and has a canopy composition of 15% cedar. Harvest of cedar outside of planned retention areas has been agreed upon between FRD and WLD in this stand. This harvest is estimated to produce about 30 cords.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>44 33051044-Cut</b>	10.9	42350 - Upland Hemlock	Sawtimber Well	138	171-200	Harvest	Shelterwood	4312 - Hemlock, Mixed Deciduous	Two-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH, except retain the hemlock. Also mark to retain some pine and birch seed trees. A small amount of hemlock will need to be harvested to harvest all other species. The Harvest Exception specification will be applied to the contract.</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 Regen:</u> Maple, pine, birch, aspen, balsam, and spruce/fir.</p> <p><u>Other Comment:</u> Upland hemlock and deciduous stand. The shorter lived species are mature and dying out of the stand. The shorter lived species should be harvested while the hardwoods are vigorous enough to sprout following the harvest. The open areas of the stand following the harvest will regenerate with a mix of hardwoods and conifers. This stand is in deer conditional range and has a canopy composition of 55% hemlock. Harvest of hemlock for operational purposes has been agreed upon between FRD and WLD in this stand. This harvest is estimated to produce about 10 cords of hemlock.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>56 33051056-Cut</b>	12.5	6115 - Lowland Ash	Sawtimber Well	99	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH; except retain some ash seed trees. Also, retain all spruce/fir that are less than seven (7) inches at DBH.</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 Regen:</u> Ash, maple, balsam, spruce/fir, and white pine.</p> <p><u>Other Comment:</u> Good quality green ash stand, that is ready to be harvested. The emerald ash borer is present and is causing dieback. This stand needs to be harvested soon to prevent the loss of timber products and to allow the ash to stump sprout following the harvest while they are still alive. About 5 cords of cedar will be harvested.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>58 33051058-Monitor</b>	8.1	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Monitor for regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Balsam, ash, maple, spruce/fir, tamarack, and white pine.</p> <p><u>Other Comment:</u> Stand was clearcut in 2019 on contract 33-034-16. The cedar was retained, but most has blown over or died since the harvest. There is very little regeneration, deer have browsed and killed almost all of the red maple and ash stump sprouts. The stand is too wet to try and scarify it, to improve the regeneration.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</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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60	33051060-Cut	54.5	4113 - R.Maple, Conifer	Sawtimber Well	108 111-140	Harvest	Seed Tree with Retention	4113 - R.Maple, Conifer	Even-Aged	No
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Prescription Cut all trees greater than three (3) inches at DBH, except retain all hemlock. Also delineate out and retain the dense patches of hemlock, including the other species that are designated for cutting. Mark to retain about 10 BA of pine, beech, birch, ash, cedar, spruce/fir, and maple for seed, partial shade, and diversity.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Red maple, beech, ash, white pine, hemlock, and spruce/fir.

Regen:

Other Mature red maple stand with a dense understory of conifer regeneration. The maple along with all other species are ready to be harvested.  
Comment: The red maple has lots of defect and decline due to its age, so thinning is no longer an effective treatment. This stand was last thinned in 1995 on contract 051-92-01. The southwestern quarter of the stand has a few lowland ash drains running through it. Seed tree harvest this stand, leaving a mix of species. This will allow the advanced regeneration to be released and the stand will be open enough to allow the hardwoods to stump sprout. This stand is in deer conditional range and has a canopy composition of 10% hemlock and 3% cedar. Harvest of cedar outside of planned retention areas has been agreed upon between FRD and WLD in this stand. This harvest is estimated to produce about 60 cords.

Site Condition:

Proposed Start Date: 10/1 /2025

**Total Treatment Acreage Proposed: 200**



# Report 4 – Site Conditions

Escanaba Mgt. Unit  
Dustin Salter: Examiner

Compartment: 51  
Year of Entry: 2026



### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	3J	5E
		With Condition	Not Available				
158	157	0	1	Aspen	0		1
59	59	0	0	Cedar			
52	51	0	1	Hemlock			1
22	22	0	0	Lowland Conifers			
87	36	0	50	Lowland Deciduous		45	6
32	31	0	1	Lowland Mixed Forest			1
211	211	0	0	Lowland Shrub			
97	96	0	0	Lowland Spruce/Fir			0
52	33	14	5	Mixed Upland Deciduous	14		5
8	8	0	0	Natural Mixed Pines			0
54	54	0	0	Northern Hardwood			
40	40	0	0	Red Pine			
15	14	0	1	Tamarack			1
73	73	0	0	Treed Bog			
74	74	0	0	Upland Conifers			
232	232	0	0	Upland Mixed Forest			
17	17	0	0	White Pine			
1,282	1,208	14	60	Total Forested Acres	14	45	15
	94%	1%	5%	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	3J: Water quality / BMPs (stream, river, or lake)	45	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Elwood Creek flows through this stand. This stand provides a buffer along the creek and provides a wildlife travel corridor. The stand is heavy with ash, and the emerald ash borer is present and is causing a significant amount of mortality.							
2	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> The north end is mostly sub-merchantable stems and the patch along the eastern edge has dense cedar.							

## Report 4 – Site Conditions

Escanaba Mgt. Unit  
Dustin Salter: Examiner

Compartment: 51  
Year of Entry: 2026



3	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Denser patch of cedar being retained.							
4	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Areas with denser hemlock and cedar, where all species will be retained.							
5	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Denser patches of cedar that were retained.							
6	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This stand was shelterwood cut, and the residual species are providing seed and partial shade. There isn't enough volume to harvest the overstory.							
9	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention patches.							
10	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention patches.							
12	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
1	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	21.1	87	81-110	N/A	Mature lowland hardwood stand, with some scattered cedar. The southeast corner of the stand has dense cedar and the northern end has heavier to lowland brush. Emerald ash borer is present and is causing defoliation and mortality. Harvesting this stand now while the ash and other lowland hardwoods are alive, will allow them to stump sprout. This stand will regenerate with a mix of lowland hardwoods and conifers.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Green Ash		40	Pole/Sap/Log	7	87	Michigan Holly		Low	5 - 10 feet	Tall Shrub
Red Maple		10	Pole/Log	9	87	Tag Alder		Medium	5 - 10 feet	Tall Shrub
Northern White Cedar		15	Pole/Log	8	115					
Black Ash		10	Pole/Log	9	87					
Paper Birch		25	Pole	8	87					
2	4130 - Aspen	Sapling Well	51.2	7	Immature	N/A	Stand was clearcut in 2017 on contract 33-026-16. All species were cut; except the white pine was retained. There were two retention patches also retained. Mostly stocked aspen and red maple stand, with some lowland pockets that are regenerating with conifers. The northwest edge of the stand didn't regenerate with aspen and is mostly open, with some conifers seeding in.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Black Cherry		5	Sapling	1	7	White Pine		Low	< 5 feet	Sapling
Red Maple		25	Sapling	1	7	Blackberry/Raspberry		Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		65	Sapling	1	7	White Spruce		Low	< 5 feet	Sapling
White Pine		2	XLog/Log	18	105					
Ironwood		3	Sapling	1	7					
3	6224 - Treed Bog	Nonstocked	33.7		Unspecified	No	Treed bog with a mix of spruce, tamarack, and white pine.			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>						
Tamarack		Medium	>20 feet	Sapling						
White Pine		Low	>20 feet	Sapling						
Black Spruce		Full	>20 feet	Sapling						
4	6122 - Black Spruce	Sapling Well	20.5	15	Immature	N/A	Nearly fully stocked stand with spruce, tamarack and white pine. The stand was seed tree cut in 2010 on contract 034-06-01. There are older sub-merchantable stems mixed in, most of which are stunted.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Pine		15	Sapling/Pole/Log	1	15	Michigan Holly		Low	5 - 10 feet	Tall Shrub
Tamarack		15	Sapling	1	15	Tag Alder		Medium	5 - 10 feet	Tall Shrub
Black Spruce		65	Sapling	1	15					
Red Maple		5	Sapling	1	15					
5	42200 - Natural White Pine	Poletimber Medium	4.7	65	1-50	N/A	Stand was clearcut in 2009 on contract 034-06-01; except about 30 basal area of pine was retained. This stand is now a two aged stand, with pine in the overstory and a fully stocked aspen and pine understory.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Pine		70	Pole/Sap/Log	8	65	Bigtooth Aspen		Full	>20 feet	Sapling
Red Pine		30	Pole/Sap/Log	8	65	Black Spruce		Low	>20 feet	Sapling
6	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	4.2	15	Immature	N/A	Fully stocked red maple and white pine stand. The overstory was removed in 2019 on contract 33-026-16. The pine, cedar, and hemlock were retained. This stand was previously shelterwood cut in 2010 on contract 034-06-01. The overstory was removed in 2019 to release the advanced regeneration from the harvest in 2010.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Pine		2	XLog/Log	18	95	Tag Alder		Medium	5 - 10 feet	Tall Shrub
White Pine		35	Sapling	2	15	Michigan Holly		Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		5	Sapling	2	15					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
7	42200 - Natural White Pine	Poletimber Well	5.4	42	1-50	N/A	Fully stocked stand with a mix of white pine and red maple, of various sizes and ages. The stand was shelterwood cut in 2009 on contract 034-06-01. There are some older mature birch, red pine, and beech within the stand, but not 2% of anyone of them.																																									
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8	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	2.8	69	1-50	N/A	Overall the stand is a low quality mixed conifer stand. The center of the stand has fewer trees and is dense with lowland brush.																																									
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9	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	7.4	15	1-50	N/A	Stand was clearcut in 2009 on contract 034-06-01. There are some residual sub-merchantable spruce and tamarack stems along with some mature red pine. The stand is mostly lowland, except for the upland ridge that is between the areas on the north and south ends. The lowland areas are regenerating well with lowland conifers and the upland has red pine and red maple.																																									
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10	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Medium	3.8	100	1-50	N/A	Stand was shelterwood cut in 2010 on contract 034-06-01. The northern half of the stand is upland with pine and red maple and the southern half is lowland with red maple and lowland brush. The stand will continue to fill in with more conifers over time.																																									
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11	629 - Mixed non-forested wetland	Nonstocked	158.3	Unspecified	No	No	This stand is a mix of lowland marsh grass and lowland brush. There is a small creek that flows through this stand, south into Elwood Creek.																																									
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12	6121 - Tamarack	Sapling Well	15.1	7	Immature	N/A	Stand was clearcut in 2017 on contract 023-16-01. Three retention patches were retained, that contained denser cedar. A few seed tree clumps were also retained. This stand has regenerated very well with tamarack and other conifers and will continue to fill in over time.																																													
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13	42210 - Natural Red Pine	Sawtimber Medium	5.3	55	1-50	N/A	Two aged stand with older pine over a fully stocked understory of aspen and red maple. This stand was cut in 2009 on contract 025-06-01. The cedar, hemlock, white pine and red pine less than 10 inches were retained.																																													
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14	6122 - Black Spruce	Poletimber Well	8.3	95	81-110	N/A	Mature lowland spruce and pine stand. All species are mature and ready to be harvested. Lowland stand with a few narrow upland ridges. This stand will regenerate really well with leaving some pine seed trees and the seeds within the moss layer getting full sunlight and germinating.																																													
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15	42290 - Natural Mixed Pine	Sapling Well	7.7	35	1-50	N/A	Stand was clearcut in 2009 on contract 025-06-01. Some pine seed trees were retained along with some advanced white pine, red pine, and spruce regen. The stand is fully stocked with a mix of older pine regeneration and younger aspen and red maple regeneration from the last harvest.																																													
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16	6127 - Lowland Pine	Sapling Well	11.5	15	1-50	N/A	Stand was seed tree cut in 2009 on contract 025-06-01. The cedar and hemlock were retained. Also all white pine and red pine less than 10 inches were retained. There are a few dense pockets of pine and hemlock, but most of the residual pine is scattered. The stand has fully regenerated with pine and other conifers. The stand is 70% lowland, with a few upland knobs.																																													
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17	6122 - Black Spruce	Poletimber Well	12.0	93	51-80	N/A	Moderate to low quality black spruce in the northern half and a mix of lowland conifers in the southern half. All species are mature and are ready to be harvested. This stand has a dense layer of moss that once the overstory is removed the seeds in the moss will germinate and grow readily.																																							
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18	42110 - Planted Red Pine	Sapling Well	7.4	8	1-50	N/A	This stand was trenched and planted with red pine in 2018. This stand was previously seed tree cut in 2009 on contract 034-06-01. Red and white pine seed trees were retained. The site was than mechanically scarified in the fall of 2011, this treatment didn't work. This stand is a mix of planted red pine in the center of the stand and the perimeter of the stand is a mix of other upland conifers.																																							
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19	6223 - Inundated Shrub Swamp	Nonstocked	11.4		Unspecified	No	Dense lowland brush stand with tag alder and holly. There are some scattered trees around the perimeter.																																							
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20	6120 - Lowland Cedar	Poletimber Medium	14.1	93	51-80	N/A	Very poor quality stand, with all species growing poorly. Including the cedar which is dying out of the stand.																																							
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21	6224 - Treed Bog	Nonstocked	22.4		Unspecified	No	Treed bog with very few merchantable trees.																																							
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Alder	Medium		Tall Shrub																																											
Black Spruce	High	>20 feet	Sapling																																											
Tamarack	Low	>20 feet	Sapling																																											
Michigan Holly	Medium		Tall Shrub																																											
22	6122 - Black Spruce	Sapling Medium	21.9	15	Immature	N/A	This stand is regenerating very well with black spruce and other lowland conifers. This stand should be fully stocked by next entry. This stand was clearcut in 2019 on contract 33-026-16. The stand is lowland, except for two narrow upland ridges that run through the center of the stand.																																							
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Black Spruce	70	Sapling	1	15																																										
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White Pine	15	Sapling	1	15																																										





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>23</b>	42210 - Natural Red Pine	Sawtimber Well	4.7	65	111-140	N/A	Good quality red pine stand with a dense understory of aspen sprouts. Stand was thinned in 2009 on contract 034-06-01. The pine is ready to be thinned again, to improve the growth of the residual stems.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>			
White Pine		15	Log/Pole/Sap	12	65	Balsam Fir			
Red Pine		85	Log/Pole/Sap	12	65	Red Maple			
						Bigtooth Aspen			
						<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
						Low	< 5 feet	Sapling	
						Medium	5 - 10 feet	Sapling	
						Medium	10 - 20 feet	Sapling	
<b>24</b>	42200 - Natural White Pine	Sawtimber Well	6.7	50	81-110	N/A	Two aged stand of older pine over a fully stocked understory of aspen and red maple. Stand was cut in 2009 on contract 034-06-01. All aspen was cut and pine greater than 12 inches was cut to release the advanced white pine regen. The pine ranges from 10 to 60 years in age, 50 is the mean age.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>			
Red Pine		40	Log/Pole/Sap	10	50	Red Maple			
White Pine		60	Log/Pole/Sap	10	50	Bigtooth Aspen			
						<b>Density</b>		<b>Avg. Height</b>	<b>Size</b>
						High	10 - 20 feet	Sapling	
						High	10 - 20 feet	Sapling	
<b>25</b>	4133 - Aspen, Mixed Pine	Sapling Well	26.3	6	Immature	N/A	Fully stocked two-aged stand with older pine regeneration over a fully stocked understory of aspen and red maple. The stand was seed tree cut in 2018 on contract 33-026-16. All trees were cut, except some pine seed trees were retained. This stand had a dense understory of pine and red maple saplings that were released with the removal of the overstory. The stand is primarily upland, with the exception of a few lowland pockets.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>			
Red Maple		15	Sapling	1	6	Balsam Fir			
White Pine		20	Sapling/Pole/Log	3	29	Beech			
Quaking Aspen		20	Sapling	1	6				
Bigtooth Aspen		40	Sapling	1	6				
Red Pine		5	Sapling/Pole/Log	3	29				
						<b>Density</b>		<b>Avg. Height</b>	<b>Size</b>
						Low		< 5 feet	Sapling
						Low		< 5 feet	Sapling
<b>26</b>	6224 - Treed Bog	Nonstocked	16.6		Unspecified	No	Treed bog with very few merchantable stems.		
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>					
Tamarack		Medium	>20 feet	Sapling					
White Pine		Low	10 - 20 feet	Sapling					
Black Spruce		High	>20 feet	Sapling					
<b>27</b>	4133 - Aspen, Mixed Pine	Sapling Well	14.5	15	Immature	N/A	Fully stocked two-aged stand with older pine regeneration with young aspen and red maple regeneration. This stand was clearcut in 2009 on contract 034-06-01. Red pine seed trees were retained. The majority of the stand is upland, except for a lowland drain running through the southern half.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>			
White Pine		20	Sapling/Pole	4	38	Balsam Fir			
Bigtooth Aspen		15	Sapling/Pole	1	15				
Quaking Aspen		45	Sapling	1	15				
Red Maple		10	Sapling	1	15				
Red Pine		10	Sapling/Pole	4	38				
						<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
						Low	5 - 10 feet	Sapling	
<b>28</b>	42210 - Natural Red Pine	Sawtimber Well	22.8	65	141-170	N/A	Overall a very good quality natural red pine stand, that is ready to be thinned again. The average basal area is around 150. The thinning will improve the growth of the residual stems. The stand had its first thinning in 2009 on contract 034-06-01.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>			
White Pine		5	Pole/Log/Sap	9	65	Bigtooth Aspen			
Red Pine		95	Log/Pole/Sap	10	65	Black Spruce			
						<b>Density</b>		<b>Avg. Height</b>	<b>Size</b>
						Low	10 - 20 feet	Sapling	
						Low	5 - 10 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**29** 4136 - Aspen, Mixed Conifer Poletimber Well 26.9 36 51-80 N/A Good quality aspen stand. This stand was clearcut in 1988 on contract 20-86-01, some pine was retained. The majority of the stand is upland, with the exception of some lower ground on the southern end.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Sapling/Pole	4	36
Bigtooth Aspen	30	Pole/Sapling	6	36
Red Pine	5	Log/Pole/Sap	10	65
Red Maple	15	Sapling/Pole	4	36
Quaking Aspen	35	Pole/Sapling	6	36
White Pine	10	Pole/Log/Sap	5	36

**30** 6120 - Lowland Cedar Sawtimber Medium 12.4 127 1-50 N/A Two - aged stand with mature cedar, hemlock and pine over a mix of conifer regeneration. The majority of the red maple and ash that stump sprouted following the harvest has been browsed and killed by deer. The stand was cut in 2019 on contract 33-026-16. The cedar and hemlock was retained. The residual basal area varies from 10 to 120 BA, with the stand averaging 40 BA.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	15	Log/Pole	13	127	Balsam Fir	Medium	< 5 feet	Sapling
White Pine	5	Log/XLog	17	127	Black Spruce	Medium	< 5 feet	Sapling
Northern White Cedar	80	Log/Pole	12	127	Michigan Holly	Low	5 - 10 feet	Tall Shrub
					Red Maple	Low	< 5 feet	Sapling
					Tag Alder	Medium	5 - 10 feet	Tall Shrub
					White Pine	Medium	< 5 feet	Sapling

**31** 6223 - Inundated Shrub Swamp Nonstocked 4.4 Unspecified No Lowland brush stand with some scattered cedar, ash, and spruce.

Sub-Canopy Species	Density	Avg. Height	Size
Michigan Holly	High		Tall Shrub
Black Spruce	Low	>20 feet	Pole
Northern White Cedar	Low	>20 feet	Pole
Black Ash	Low	>20 feet	Sapling
Tag Alder	High	5 - 10 feet	Tall Shrub

**32** 6120 - Lowland Cedar Poletimber Medium 3.9 137 51-80 N/A Low quality cedar stand with some tamarack mixed in.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	2	Pole	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	86	Pole	9	137	Balsam Fir	Low	< 5 feet	Sapling
White Pine	2	Log/Pole	12		Michigan Holly	Medium	5 - 10 feet	Tall Shrub
Tamarack	10	Pole	9					

**33** 6130 - Fir, Aspen, Maple Sapling Poor 28.4 5 Immature N/A Stand was clearcut in 2019 on contract 33-026-16. The hemlock was retained, along with some conifer seed trees. In addition, two retention patches were retained. The stand is regenerating with a mix of red maple, white pine, balm, and balsam fir. More conifers will continue to seed in over time. Most of the ash and maple stump sprouts have been browsed and killed by deer.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Sapling	1	5	Blackberry/Raspberry	Low	5 - 10 feet	Tall Shrub
White Pine	30	Sapling	1	5	Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Poplar	15	Sapling	1	5				
Beech	5	Sapling	1	5				
Northern White Cedar	5	Log/Pole	12	137				
Balsam Fir	15	Sapling	1	5				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
<b>34</b>	42350 - Upland Hemlock	Sawtimber Well	4.3	135	111-140	N/A	Hemlock stand with scattered other species. this stand was last thinned in 1988 on contract 020-86-01. The majority of the short lived species have been removed from this stand. There is some white pine and red maple regeneration in the open areas.																																											
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<b>35</b>	42350 - Upland Hemlock	Sawtimber Well	13.0	137	111-140	N/A	Mature dense hemlock stand, with some pine and hardwood mixed in. The shorter lived species are mature and should be harvested. The stand is too dense at this time to get regeneration, by opening the stand up more it will allow for more pine, hemlock and red maple regeneration. This stand was last thinned in 2009 on contract 034-06-01.																																											
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<b>36</b>	629 - Mixed non-forested wetland	Nonstocked	5.9		Unspecified	No	Lowland brush stand, with some clumps of conifers and hardwoods.																																											
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<b>37</b>	6122 - Black Spruce	Sapling Well	34.1	14	Immature	N/A	Stand was seed tree cut in 2010 on contract 034-06-01. There were seed trees retained throughout the stand. The northern two-thirds of the stand are regenerating very well with a mix of lowland conifers.																																											
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<b>38</b>	6229 - Mixed lowland shrub	Nonstocked	13.1	0	Unspecified	No	This stand is a mix of lowland brush with pockets of very low quality lowland conifers. This stand will never have enough volume to harvest it.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>39</b>	4319 - Mixed Upland Forest	Sawtimber Well	6.2	101	81-110	N/A	Mature mixed hardwood and pine stand. All species are mature and ready to be harvested. This stand is an upland sand ridge, with more pine on the north end and more hardwood on the south end. This stand will be seed tree harvested to allow the hardwoods to sprout and the residual conifers to provide seed. This will allow the stand to continue to be a mixed forest type.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Bigtooth Aspen		5	Log/Pole	14	101	Beech		
White Pine		15	Log/Pole/Sap	10	101	Low		
Black Spruce		5	Pole/Sap/Log	8	101	5 - 10 feet		
Paper Birch		15	Pole/Log	9	101	Sapling		
Balsam Fir		7	Pole/Log/Sap	9	101			
Austrian Pine		3	Log/Pole	11	101			
Red Pine		20	Log/Pole/Sap	12	101			
Red Maple		30	Log/Pole/Sap	10	101			
<b>40</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	28.2	49	51-80	N/A	Mature stand with a mix of aspen and red maple, with pockets of conifers. The stand is a two aged stand with 50 year old aspen and fir, with older hardwood, hemlock, and cedar. The majority of the stand is upland, except for an ash drain running through the middle. All species are mature and are ready to be harvested. This stand will be managed for a mix of aspen, hardwood and a mix of conifers. The aspen and hardwoods will sprout following the harvest and the conifers will seed in over time.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Paper Birch		2	Pole/Log/Sap	7	49	White Pine		
Green Ash		5	Log/Pole	10	97	Low		
Quaking Aspen		33	Pole/Log/Sap	9	49	5 - 10 feet		
Balsam Fir		2	Pole/Sap/Log	7	49	Sapling		
White Pine		5	Log/XLog/Pole	17	97	Beech		
Red Maple		30	Pole/Log/Sap	9	97	Low		
Hemlock		10	Log/Pole/XLog	15	137	5 - 10 feet		
Balsam Poplar		3	Pole	7	49	Sapling		
Black Ash		5	Pole/Log	8	97			
<b>41</b>	6120 - Lowland Cedar	Sawtimber Well	28.7	124	141-170	N/A	Two aged stand with mature cedar, ash, and maple with younger balm, spruce/fir, maple and birch. The stand was strip cut in 1975. There are dense strips of cedar, with a mix of other species surrounding them. This stand will be ready to harvest next entry.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Paper Birch		10	Pole/Sap/Log	9	124	Balsam Poplar		
Black Ash		10	Pole/Log/Sap	8	124	Medium		
Green Ash		5	Log/Pole	10	124	>20 feet		
Northern White Cedar		65	Log/Pole	12	124	Pole		
Red Maple		10	Log/Pole/Sap	12	124	Balsam Fir		
						Medium		
						>20 feet		
						Pole		
						Tag Alder		
						Medium		
						5 - 10 feet		
						Tall Shrub		
<b>42</b>	6115 - Lowland Ash	Poletimber Well	8.5	97	51-80	N/A	Mature lowland ash stand, that needs to be harvested prior to the emerald ash borer kills it all. The stand needs to be harvested while the ash and red maple are vigorous enough to stump sprout following the harvest.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Black Ash		60	Pole/Log	8	97	Balsam Fir		
Green Ash		15	Log/Pole	13	97	Low		
Yellow Birch		2	Pole/Log	9	97	< 5 feet		
Northern White Cedar		15	Log/Pole	10	97	Sapling		
Paper Birch		3	Pole/Log	8	97	Tag Alder		
Red Maple		5	Log/Pole	11	97	Low		
						5 - 10 feet		
						Tall Shrub		
						Michigan Holly		
						Medium		
						5 - 10 feet		
						Tall Shrub		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
<b>43</b>	42350 - Upland Hemlock	Sawtimber Poor	14.2	124	51-80	N/A	Stand was cut in 2019 on contract 33-034-16. All hemlock, cedar, and pine was retained. Three retention patches were also retained. The stand is regenerating well with a mix of conifer seedlings and red maple sprouts. The stand will continue to fill in over time. The red maple stump sprouts have by browsed hard by the deer. 70% of the stand is upland.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Northern White Cedar		5	Log/Pole	12	124	Tamarack		Low	< 5 feet	Sapling
White Pine		10	Log/Pole	15	124	White Pine		Medium	< 5 feet	Sapling
Hemlock		85	Log/Pole	13	124	Beech		Low	< 5 feet	Sapling
						Balsam Fir		Low	< 5 feet	Sapling
						White Spruce		Medium	< 5 feet	Sapling
						Red Maple	Medium	< 5 feet	Sapling	
<b>44</b>	42350 - Upland Hemlock	Sawtimber Well	10.9	138	171-200	N/A	Upland hemlock and deciduous stand. The shorter lived species are mature and dying out of the stand. The shorter lived species should be harvested while the hardwoods are vigorous enough to sprout following the harvest. The open areas of the stand following the harvest will regenerate with a mix of hardwoods and conifers.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Pine		2	Log/Pole/Sap	16	138	Beech		Low	5 - 10 feet	Sapling
Paper Birch		18	Log/Pole	12						
Hemlock		55	Log/Pole	13	138					
Northern White Cedar		5	Log/Pole	13	138					
Balsam Fir		2	Pole/Sap/Log	8						
Red Maple		18	Log/Pole	12						
<b>45</b>	4319 - Mixed Upland Forest	Poletimber Well	76.6	47	51-80	N/A	Two aged stand with older pine over maturing aspen and red maple. The aspen and red maple have been slow growing, growing up under the partial overstory of pine and hemlock. The aspen and maple have been growing slowly. This stand was clearcut in the 1970's; except for the pine, cedar and hemlock. In 2004 the large pine was cut out of this stand on contract 046-01-01. Harvest this stand next entry.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Hemlock		10	Log/Pole	14	104	Tag Alder		Low	5 - 10 feet	Tall Shrub
White Pine		25	Log/Pole/Sap	10	104					
Quaking Aspen		30	Pole/Sap/Log	7	47					
Balsam Fir		5	Pole/Sapling	6	47					
Red Maple		25	Pole/Sap/Log	6	47					
Red Pine		5	Log/Pole/Sap	10	104					
<b>46</b>	629 - Mixed non-forested wetland	Nonstocked	9.8		Unspecified	No	Lowland brush stand with some ash and cedar along the edge. Elwood Creek flows through this stand.			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>						
Black Ash		Low	>20 feet	Pole						
Tag Alder		Medium	5 - 10 feet	Tall Shrub						
Northern White Cedar		Low	>20 feet	Pole						
<b>47</b>	4319 - Mixed Upland Forest	Sapling Well	133.9	30	1-50	N/A	Stand was cut in 2018 and 2019 on contract 33-027-16. All species were cut, except for hemlock and cedar. Also, some pine were marked to retain. Stand was previously thinned in 1995 on contract 051-92-01. There were a number of retention patches retained, most of which contain dense hemlock and a mix of other species. There is dense advanced white pine, spruce and balsam fir regeneration. There are also red maple stump sprouts. The stand is nearly fully stocked, but will continue to fill in over time.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Northern White Cedar		3	Log/Pole	12	138	Hemlock		Low	10 - 20 feet	Sapling
White Pine		35	Sapling/Pole	3	30	Green Ash		Low	< 5 feet	Sapling
Hemlock		17	Log/Pole	12	138	Blackberry/Raspberry		Medium	5 - 10 feet	Tall Shrub
Red Maple		35	Sapling	1	5					
Beech		10	Sapling	1	30					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
<b>48</b>	42350 - Upland Hemlock	Sawtimber Well	7.3	138	171-200	N/A	Dense hemlock stand with some red maple mixed in. This stand was last thinned in 1995 on contract 051-92-01.																																																				
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<b>49</b>	4136 - Aspen, Mixed Conifer	Poletimber Well	5.0	30	1-50	N/A	Stand was clearcut in 1994 on contract 051-92-01. Fully stocked aspen stand, with some pockets of conifer. Some of the pockets of conifer are older at 50 to 60 years of age.																																																				
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<b>50</b>	6115 - Lowland Ash	Sawtimber Medium	44.7	99	51-80	N/A	Lowland ash stand with Elwood Creek flowing through it. The stand provides mature forest conditions along the creek, but the Emerald Ash Borer is present and these conditions will be lost in the near future.																																																				
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<b>51</b>	4319 - Mixed Upland Forest	Sapling Well	15.4	15	1-50	N/A	This stand was shelterwood cut in 2009 on contract 024-06-01 to release the advanced conifer regeneration. Some mature hardwoods were marked to leave, along with some mature pine. The stand is fully stocked with a combination of advanced white pine regeneration and red maple sprouts following the last harvest. The stand is about 80% upland, with a pocket of lowland in the center.																																																				
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<b>52</b>	42350 - Upland Hemlock	Sawtimber Well	1.7	106	171-200	N/A	Stand was thinned in 2004 on contract 051-02-01. Overall the stand is mature hemlock with scattered red maple and yellow birch.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>53</b>	429 - Mixed Upland Conifers	Sapling Medium	17.1	35	1-50	N/A	Stand was clearcut in 2019 on contract 33-027-16; except the hemlock, white pine and cedar were retained. Stand was previously thinned in 1994 on contract 051-92-01. The stand is a mix of advanced white pine and spruce regeneration with red maple sprouts from the last harvest. The deer have browsed and killed most of the ash and red maple stump sprouts following the harvest. The stand is 70% upland, with a lowland swale running through the middle of the stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		20	Sapling	1	5	Blackberry/Raspberry		Low	5 - 10 feet	Tall Shrub	
Beech		5	Sapling	3	35						
Balsam Fir		5	Sapling	1	5						
Hemlock		2	Log/Pole	12	107						
White Pine		58	Sapling/Pole	4	35						
White Spruce		10	Sapling	3	35						

<b>54</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Poor	14.2	107	1-50	N/A	Stand was shelterwood cut in 2009 on contract 024-06-01. Two aged stand with mature red maple and ash over a fully stocked understory of ash seedlings in the lowland and a mix of white pine, red maple, and other conifers on the upland portions. The deer have browsed and killed most of the ash and red maple stump sprouts following the harvest. The mature ash is dying out due to the emerald ash borer, but there is not enough volume to try and harvest.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		45	Log/Pole	12	107	White Pine		Medium	10 - 20 feet	Sapling	
Green Ash		50	Log/Pole	13	107	Green Ash		Medium	< 5 feet	Sapling	
Northern White Cedar		5	Log/Pole	12	107	Tag Alder		Low	5 - 10 feet	Tall Shrub	
						Red Maple		Low	>20 feet	Sapling	
						Balsam Poplar		Low	>20 feet	Sapling	
						Beech		Low	5 - 10 feet	Sapling	
						Balsam Fir		Low	5 - 10 feet	Sapling	

<b>55</b>	429 - Mixed Upland Conifers	Sapling Medium	56.8	20	1-50	N/A	Stand was cut in 2019 on contract 33-034-16. The cedar and hemlock was retained, along with some pine and spruce seed trees. The stand was previously thinned in 2004 on contract 044-01-01. The stand is regenerating, but will take more time to fill in. The residual cedar is dying out of the stand. About 70% of the stand is upland, except in the central and southern portions.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		30	Sapling	2	20	Blackberry/Raspberry		Medium	5 - 10 feet	Tall Shrub	
Northern White Cedar		20	Log/Pole	11	100						
White Spruce		10	Sapling	1	5						
Red Maple		25	Sapling	1	5						
Balsam Fir		5	Sapling	1	5						
Hemlock		8	Log/Pole	12	100						
White Pine		2	Log/XLog	16	100						

<b>56</b>	6115 - Lowland Ash	Sawtimber Well	12.5	99	81-110	N/A	Good quality green ash stand, that is ready to be harvested. The emerald ash borer is present and is causing dieback. This stand needs to be harvested soon to prevent the loss of timber products and to allow the ash to stump sprout following the harvest while they are still alive.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Ash		20	Pole/Log	8	99	Tag Alder		Low	5 - 10 feet	Tall Shrub	
Green Ash		65	Log/Pole	11	99						
White Spruce		3	Pole/Log/Sap	8	99						
Northern White Cedar		2	Log/Pole	10	99						
Balsam Fir		5	Pole/Log/Sap	8	99						
Red Maple		5	Log/Pole	12	99						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>57</b>	4136 - Aspen, Mixed Conifer	Sapling Well	29.6	15	1-50	N/A	Stand was clearcut in 2009 on contract 024-06-01. Stand has regenerated well with aspen, with some mature spruce and cedar scattered throughout the stand.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Balsam Fir		5	Sapling/Pole	3	40	Beech		
Quaking Aspen		75	Sapling	3	15	Tag Alder		
White Spruce		10	Log/Pole/Sap	10	99	Density		
Green Ash		5	Sapling/Pole	2	40	Avg. Height		
Northern White Cedar		5	Log/Pole	10	99	Size		
<b>58</b>	6229 - Mixed lowland shrub	Nonstocked	8.1	0	Unspecified	613 - Lowland Mixed Forest	Stand was clearcut in 2019 on contract 33-034-16. The cedar was retained, but most has blown over or died since the harvest. There is very little regeneration, deer have browsed and killed almost all of the red maple and ash stump sprouts. The stand is too wet to try and scarify it, to improve the regeneration.	
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	Northern White Cedar			
		Low	>20 feet	Pole				
<b>59</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	4.7	5	Immature	N/A	Stand was clearcut in 2019 on contract 33-034-16. The stand has regenerated well with aspen and balm and the edges that are slightly wetter have spruce/fir seeding 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		50	Sapling	1	5	Blackberry/Raspberry		
Balsam Fir		5	Sapling	1	5	Density		
Balsam Poplar		45	Sapling	1	5	Avg. Height		
						Size		
<b>60</b>	4113 - R.Maple, Conifer	Sawtimber Well	54.5	108	111-140	N/A	Mature red maple stand with a dense understory of conifer regeneration. The maple along with all other species are ready to be harvested. The red maple has lots of defect and decline due to its age, so thinning is no longer an effective treatment. This stand was last thinned in 1995 on contract 051-92-01. The southwestern quarter of the stand has a few lowland ash drains running through it. Seed tree harvest this stand, leaving a mix of species. This will allow the advanced regeneration to be released and the stand will be open enough to allow the hardwoods to stump sprout.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
White Pine		3	Log/Pole	12	108	White Pine		
Northern White Cedar		3	Log/Pole	13	108	Balsam Fir		
Balsam Fir		2	Pole/Sap/Log	7		White Spruce		
Black Spruce		3	Pole/Sap/Log	7	108	Beech		
Black Ash		5	Pole/Log	8	108	Density		
Paper Birch		2	Pole/Log	8	108	Avg. Height		
Red Maple		65	Log/Pole	12	108	Size		
Green Ash		5	Log/Pole	11	108			
Sugar Maple		2	Log/Pole	13	108			
Hemlock		10	Log/Pole	14	108			





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**61** 4199 - Other Mixed Upland Deciduous Sapling Well 5.5 15 1-50 N/A

Stand was shelterwood cut in 2009 on contract 024-06-01. Some residual maple, ash, and conifers were retained, equaling about 20 basal area. The stand has regenerated well with a mix of maple, ash, balsam, aspen, and spruce/fir. Quite a few of the residual stems have died or have blown over since the harvest.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Log	10	107
Quaking Aspen	25	Sapling	2	15
Balsam Poplar	15	Sapling	2	15
White Spruce	5	Sapling	2	15
Balsam Fir	5	Sapling	2	15
Green Ash	2	Log	10	107
Green Ash	16	Sapling	2	15
Red Maple	30	Sapling	2	15

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	Tall Shrub