



# Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33041

Entry Year 2025

Acreage: 1,154

County Menominee

Management Area: Green Bay

**Stand Examiner:** Dustin Salter

## Legal Description:

T36N R25W Sections 10 and 15

## Identified Planning Goals:

This compartment is comprised primarily of three different cover types. They are natural red pine, poor quality red maple, and black spruce. The high deer numbers in this area have caused sustained overbrowsing which reduces plant cover and diversity, alters nutrient and carbon cycling, and redirects succession to shift future overstory composition. This is chronic, pervasive and has long-lasting impacts on the composition and diversity of our future forests. Deer have reduced the percentage of red maple, ash, and aspen regeneration in the harvests from the past ten years. They are also heavily browsing natural white pine seedlings. Numerous different covertypes will be harvested this entry. An aspen stand along with some upland mixed stands will be clearcut to allow sprouting of each of the species. Some mature upland pine stands will be harvested, these treatments will range from a thinning to seed tree harvest to overstory removal. Also a few lowland ash and spruce stands will be clearcut. There are numerous pests causing a significant amount of mortality. The eastern larch beetle is killing the tamarack, the emerald ash borer is killing the ash, and the spruce budworm is killing the balsam fir and some spruce.

## Soil and topography:

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

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

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

## Unique Natural Features:

No Unique Natural Features known.

## Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

## Special Management Designations or Considerations:

None present.

## Watershed and Fisheries Considerations:

This compartment contains a number of unnamed tributaries and wetland areas to the Cedar River along the western portion. A 100' buffer is recommended on all waterbodies within this compartment.

## Wildlife Habitat Considerations:

Compartment 41 is part of the Green Bay Lake Plain Management Area. This area demonstrates a natural propensity to grow white pine and balsam fir (both are common in the understory of many aspen and maple stands within the management area). These conifer species will be encouraged, where appropriate. Cedar and hemlock provide important wildlife habitat, but unfortunately, regeneration of both species is difficult. This management area represents more than 25% of the hemlock resource and almost 20% of the cedar resource on state forest land in the western Upper Peninsula. The primary focus of wildlife habitat management will be to address the habitat requirements identified for the following featured species: blackburnian warbler, red shoulder hawk, ruffed grouse, white-tailed deer, wild turkey and wood duck. Some of the most significant wildlife management issues in the management area are: within-stand diversity; mesic conifer; mature forest; habitat fragmentation; mast; forest openings; mast (hard); retain or, if absent, develop large living and dead standing trees (for cavities, especially near water); deer wintering complexes; and mature forest.

## 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 operation is several miles away. Potential for sand & gravel development within the compartment appears low. Most of the compartment consists of low wetlands, which would inhibit surface mining. Some remote geophysical surveys covering this area have been conducted, but there is no evidence of past ground-based mineral exploration in the area. There is no current leasing activity involving State-owned mineral rights in the area. Potential for metallic minerals beneath the compartment is considered low at this time based on existing data. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

**Vehicle Access:**

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

**Survey Needs:**

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

**Recreational Facilities and Opportunities:**

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

**Fire Protection:**

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

**Additional Compartment Information:**

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

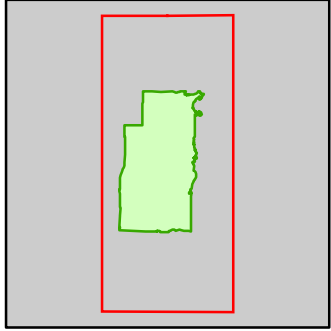
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

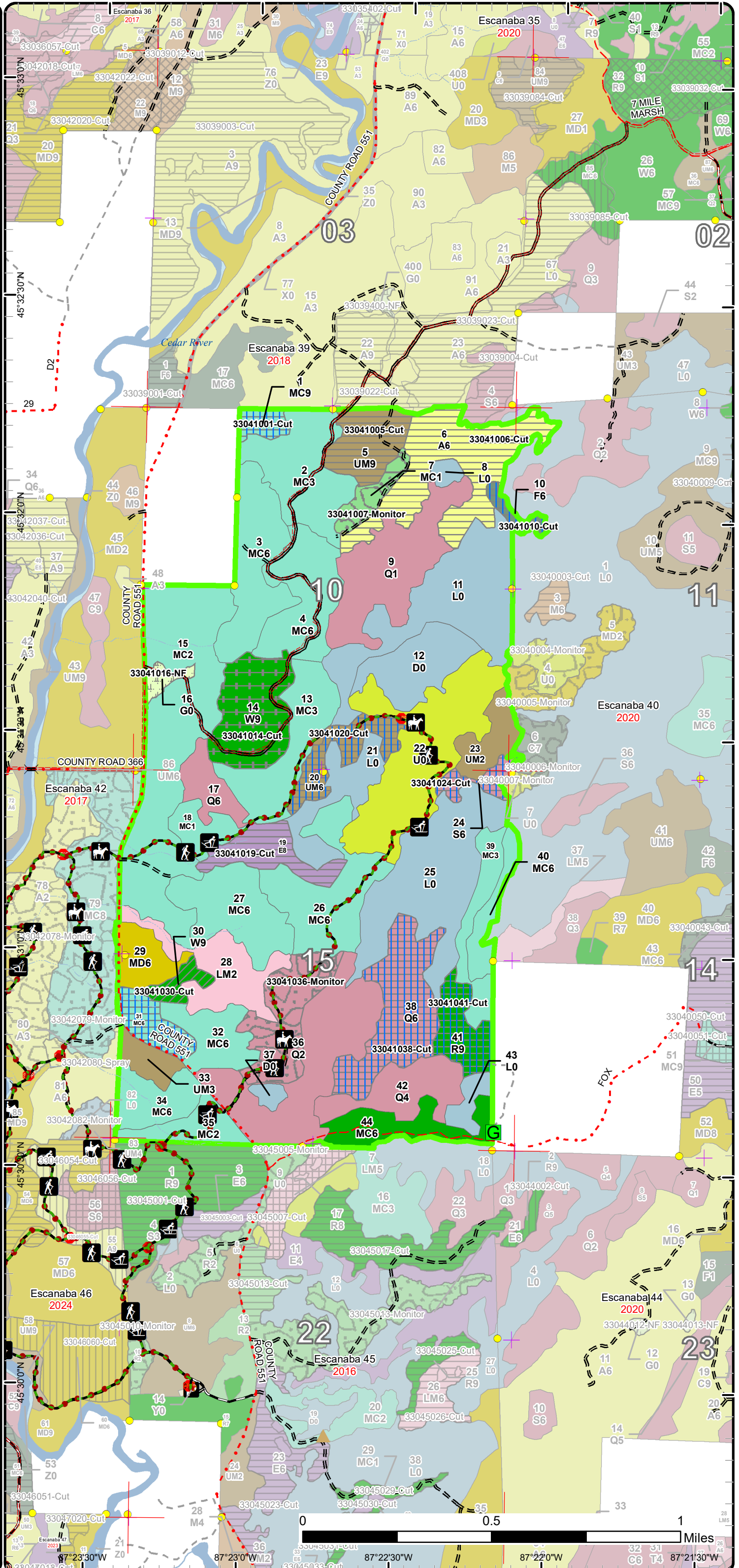
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 41  
 T36N-R25W Sec. 10 and 15  
 County: Menominee  
 Unit: Escanaba  
 Mgmt Area: Green Bay  
 YOE: 2025  
 Acres: 1153.8 GIS Calculated  
 Examiner: Dustin Salter  
 Map Revised: 6/26/2023  
 Map Phase: Pre-Review

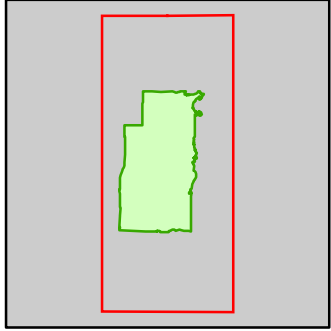


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Hiking Trails
- Horse Trails
- Ski Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Equestrian Trails
- Designated Ski Trails
- Designated Multi-Use Trails
- Designated ORV Route
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- G Gate
- Bridges
- P Parking Lot
- Sign
- Trailhead
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 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
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub

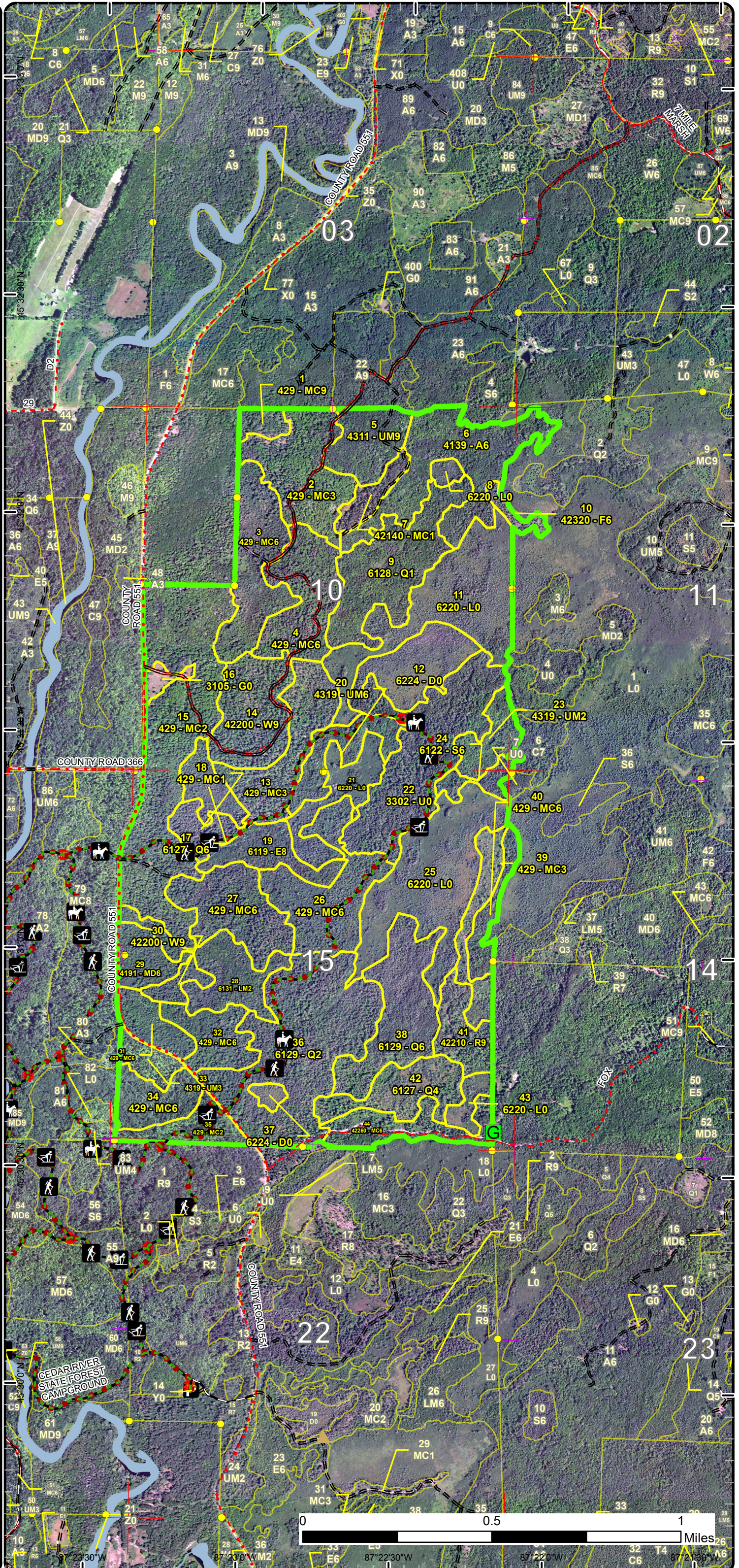


# Stand Boundary Map

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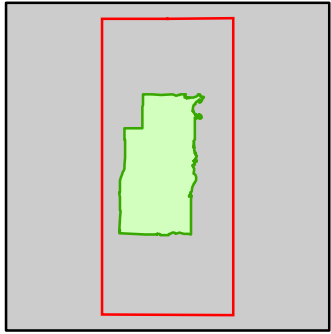
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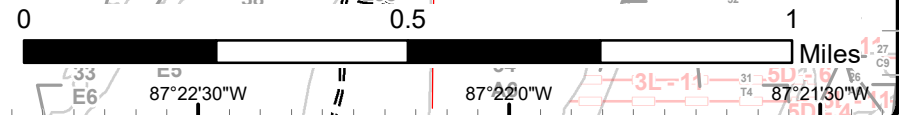
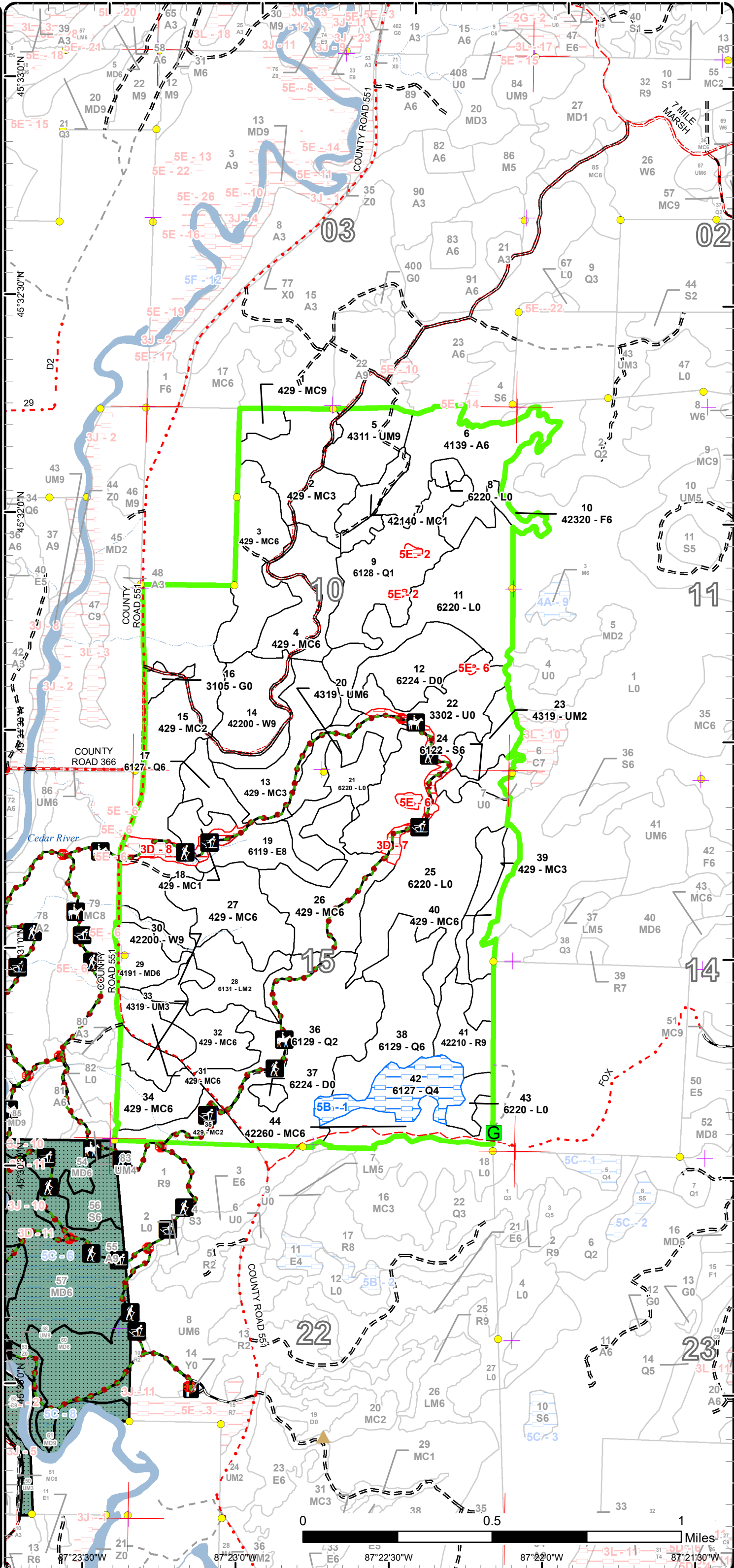
0 0.5 1 Miles  
 87°22'30"W 87°20'W 87°18'30"W  
 45°30'00"N 45°28'00"N 45°26'00"N

# Special Conservation Areas

Compartment: 41  
 T36N-R25W Sec. 10 and 15  
 County: Menominee  
 Unit: Escanaba  
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 Examiner: Dustin Salter  
 Map Revised: 6/26/2023  
 Map Phase: Pre-Review



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- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- G Gate
- Bridges
- P Parking Lot
- Sign
- Trailhead
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- Unavailable
- 3D: Recreational / Scenic values
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- Vernal Pool



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	0	0	52	0	0	0	0	0	0	0	0	0	0	0	0	52
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Low-Density Trees	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64
Lowland Conifers	0	46	0	0	13	0	0	0	0	0	66	0	0	0	0	0	0	86	210
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	18
Lowland Mixed Forest	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Lowland Shrub	154	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	14
Natural Mixed Pines	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	21
Planted Mixed Pines	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Red Pine	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	17
Treed Bog	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Upland Conifers	0	119	71	54	58	0	0	13	17	0	19	0	0	0	0	0	0	68	419
Upland Mixed Forest	0	14	9	0	0	0	21	0	0	18	0	0	0	0	0	0	0	0	62
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
White Pine	0	0	0	0	0	0	0	0	0	6	34	0	0	0	0	0	0	0	40
<b>Total</b>	<b>252</b>	<b>216</b>	<b>80</b>	<b>54</b>	<b>71</b>	<b>73</b>	<b>21</b>	<b>13</b>	<b>17</b>	<b>29</b>	<b>144</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>168</b>	<b>1153</b>



## Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 41

Total Compartment Acres: 1,154

Commercial Harvest - 238  
 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
Aspen	51	0	0	0	0	0	0	0	0	51
Lowland Conifers	0	0	0	42	0	0	0	0	0	42
Lowland Deciduous	18	0	0	0	0	0	0	0	0	18
Lowland Spruce/Fir	0	0	0	7	0	0	0	0	0	7
Red Pine	0	0	0	17	0	0	0	0	0	17
Upland Conifers	0	0	0	19	0	0	0	0	0	19
Upland Mixed Forest	21	0	0	17	0	0	0	0	0	39
Upland Spruce/Fir	0	0	0	5	0	0	0	0	0	5
White Pine	0	0	0	0	0	6	34	0	0	41
<b>Total</b>	<b>91</b>	<b>0</b>	<b>0</b>	<b>107</b>	<b>0</b>	<b>6</b>	<b>34</b>	<b>0</b>	<b>0</b>	<b>238</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	238	0	0	0	0	0	39	0	4	281
Next Step	0	6	0	0	0	0	198	0	0	204
<b>Total</b>	<b>238</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>237</b>	<b>0</b>	<b>4</b>	<b>485</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>33041001-Cut</b>	6.1	429 - Mixed Upland Conifers	Sawtimber Well	70	51-80	Harvest	Seed Tree with Retention	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH; except mark to retain some pine and spruce seed trees. The stand will be scarified following the harvest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Pine, spruce/fir, aspen, balm, and maple.</p> <p><u>Other Comment:</u> Mature upland conifer stand with a mix of spruce/fir and white pine. The spruce/fir is being defoliated by the spruce budworm. The white pine is very low quality, short and very limby. This stand is ready to be harvested to salvage the spruce/fir and remove the low quality pine. A seed tree harvest will allow the stand to regenerate following the harvest. The stand will be mechanically scarified following the harvest to expose mineral soil to increase the amount of pine regeneration.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
<b>5</b>	<b>33041005-Cut</b>	21.3	4311 - Pine, Aspen Mix	Sawtimber Well	53	81-110	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 mark to retain some pine. Single trees and small clumps of pine will be retained. The stand will regenerate with aspen and the pine will seed in over time.</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> Aspen, pine, red maple, and spruce/fir.</p> <p><u>Other Comment:</u> Mature aspen and pine stand that is ready to be harvested. The stand will be harvested to regenerate a mix of aspen and pine.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
<b>6</b>	<b>33041006-Cut</b>	51.4	4139 - Aspen, Mixed Deciduous	Poletimber Well	47	51-80	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH; except mark to retain some pine and spruce 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 Regen:</u> Aspen, maple, pine, ash, and spruce/fir.</p> <p><u>Other Comment:</u> Mature aspen and older maple, ash, and spruce/fir. All species are mature and are ready to be harvested. The stand is about 60% upland. The aspen and hardwood will sprout following the harvest and the conifers will seed in over time.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</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	33041010-Cut	4.6	42320 - Upland Spruce	Poetimber Well	80	51-80	Harvest	Seed Tree with Retention	42340 - Upland Spruce/Fir	Even-Aged	No
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Prescription Cut all trees greater than three (3) inches at DBH; except mark to retain some spruce and pine seed trees.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Spruce/fir, pine maple, and tamarack.

Regen:

Other Fully stocked good quality spruce stand, that is ready to be harvested. Upland stand with a mix of white and black spruce. Some seed trees will be retained to regenerate the stand following the harvest.

Site Condition

Proposed Start Date: 10/1 /2024

14	33041014-Cut	34.4	42200 - Natural White Pine	Sawtimber Well	97	81-110	Harvest	Overstory Removal	42290 - Natural Mixed Pine	Even-Aged	No
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Prescription Cut all trees greater than four (4) inches at DBH; except mark to retain some pine seed trees. Also retain all hemlock.

Specs:

Next Step

Treatments:

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

Regen:

Other Two aged stand with mature pine over a fully stocked understory of pine regeneration. The pine understory is ready to be released. Some seed trees will also be retained to provide more seed and diversity after the harvest. The stand was thinned in 2008 on contract 032-05-01 and previously in 1993.

Site Condition

Proposed Start Date: 10/1 /2024

16	33041016-NF	3.9	3105 - Mixed Upland Herbaceous	Nonstocked	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others. Also sharecropping could be considered for this opening.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 8 /30/2023



Standard

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>19</b>	<b>33041019-Cut</b>	18.1	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	97	51-80	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
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Prescription Specs: Cut all trees greater than three (3) inches at DBH; except retain the white pine, cedar, and yellow birch. Also retain all spruce/fir less than six (6) inches at DBH.

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

Acceptable Regen: Maple, ash, pine, spruce/fir, and tamarack.

Other Comment: Mature lowland hardwood stand with some scattered conifers. There is a strip of lowland brush running east to west through the center of the stand. The edges of the stand are higher and have better quality timber. This stand needs to be harvested prior to the emerald ash borer killing all of the ash. The borer is already present in the stand. The hardwoods will stump sprout following the harvest and conifers will seed in with the retention of some seed trees.

Site Condition

Proposed Start Date: 10/1 /2024

<b>20</b>	<b>33041020-Cut</b>	17.2	4319 - Mixed Upland Forest	Poetimber Well	82	51-80	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Specs: Cut all trees greater than three (3) inches at DBH; except retain some pine, spruce, and hardwood seed trees. A higher percentage of the seed trees will be retained along the pathway. A denser patch of cedar and hemlock will be retained in the northwestern portion of the stand.

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

Acceptable Regen: Maple, pine, aspen, birch, spruce/fir, and ash.

Other Comment: Mature upland mixed stand with narrow ash drainages running through it. The Cedar River Pathway runs through the northern portion of the stand. The stand is ready to be harvested, the hardwoods and aspen will sprout following the harvest. And following the harvest the conifer seed trees will allow additional seed to allow more conifers to seed it. Residual trees will be retained along the pathway, to provide partial shade and improve the aesthetics. This stand is in conditional deer wintering range and has a canopy composition of 2% cedar. A small retention patch was delineated, but otherwise cedar in this stand is lacking in sheltering qualities. FRD and WLD are in agreement that cedar may be harvested in this stand.

Site Condition

Proposed Start Date: 10/1 /2024

<b>24</b>	<b>33041024-Cut</b>	7.2	6122 - Black Spruce Poetimber Well	Well	97	51-80	Harvest	Seed Tree with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
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Prescription Specs: Cut all trees greater than three (3) inches at DBH; except mark to retain some spruce, tamarack, and pine seed trees.

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

Acceptable Regen: Spruce/fir, tamarack, pine, and maple.

Other Comment: Mature good quality black spruce stand. This stand is ready to be harvested. This stand will regenerate with a mix of conifer species following the harvest. A mix of seed trees will be retained to provide additional seed.

Site Condition

Proposed Start Date: 10/1 /2024



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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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30	33041030-Cut	6.2	42200 - Natural White Pine	Sawtimber Well	84	141-170	Harvest	Crown Thinning	4220 - Natural White Pine	Two-Aged	No
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Prescription Thin stand down to 70 to 80 basal area. Also cut all merchantable spruce/fir and aspen.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Stand was cut in 1993 on contract 014-91-01. All species greater than 6 inches were cut; except cedar, hemlock, and pine. Some pine was marked to cut. Mature white pine stand over a dense understory of red maple saplings. The stand will be thinned to improve the growth of the residual trees and to release some of the red maple saplings.

Site Condition

Proposed Start Date: 10/1 /2024

31	33041031-Cut	13.0	429 - Mixed Upland Conifers	Poletimber Well	68	81-110	Harvest	Seed Tree with Retention	4311 - Pine, Aspen Mix	Even-Aged	No
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Prescription Cut all trees greater than three (3) inches at DBH; except mark to retain 10 basal area of pine, maple, and spruce. Do not leave seed trees in the dense patches of aspen.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Regen:

Other Mature balsam fir and pine stand with some deciduous species. The balsam fir has some spruce budworm defoliation, but no mortality at this time. The stand will be harvested to regenerate the stand to a mix of the current species. Some seed trees will be retained to provide a seed source, partial shade, and diversity. The maple, aspen, and ash will stump sprout following the harvest and the conifers will seed in over time. The stand was cut in 1993 on contract 014-91-01. All species greater than 6 inches were cut; except cedar, hemlock, and pine. Some pine was marked to cut.

Site Condition

Proposed Start Date: 10/1 /2024

38	33041038-Cut	41.7	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	90	81-110	Harvest	Seed Tree with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
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Prescription Cut al trees greater than three (3) inches at DBH; except mark some spruce and pine seed trees.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Spruce, pine, tamarack, and red maple.

Regen:

Other Good quality mature black spruce stand with ridges of mature red pine. The southern end of the stand has more white pine. All species are mature and ready to be harvested. Seed trees will be retained to provide additional seed and diversity after the stand is harvested. The stand will regenerate with a mix of conifers.

Site Condition

Proposed Start Date: 10/1 /2024



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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>41 33041041-Cut</b>	17.0	42210 - Natural Red Pine	Sawtimber Well	100	51-80	Harvest	Seed Tree with Retention	42210 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than five (5) inches at DBH; except 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> Pine, spruce, tamarack, maple aspen, and birch.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mature red pine stand with a dense understory of mostly conifer regeneration. Stand was thinned in 2001 on contract 040-00-01. All species were cut; except pine, hemlock, and cedar. The pine was thinned. The overstory needs to be removed to release the advanced regeneration and to allow for more red pine to seed in following the harvest. Red pine seed trees will be retained to provide additional seed.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

**Approved Treatments:**

<b>7 33041007-Monitor</b>	9.0	42140 - Planted Mixed Pine	Sapling Poor	4	Immature	Monitoring	Artificial Regen(1yr)	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Monitor red pine seedlings for survival.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>36 33041036-Monitor</b>	30.0	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	30	1-50	Monitoring	Artificial Regen(1yr)	42290 - Natural Mixed Pine	Two-Aged	No
<p><u>Prescription</u> Regeneration check following red pine planting.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red and white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

**Total Treatment Acreage Proposed: 281.1**

## Report 4 – Site Conditions

Escanaba Mgt. Unit  
Dustin Salter : Examiner

Compartment: 41  
Year of Entry: 2025

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	3D	5E
		With Condition	Not Available				
51	51	0	0	Aspen			
4	4	0	0	Herbaceous Openland			
64	53	0	11	Low-Density Trees		10	2
211	185	24	1	Lowland Conifers	24		1
18	18	0	0	Lowland Deciduous			
28	28	0	0	Lowland Mixed Forest			
154	154	0	0	Lowland Shrub			
7	7	0	0	Lowland Spruce/Fir		0	
14	14	0	0	Mixed Upland Deciduous			
21	21	0	0	Natural Mixed Pines			
9	9	0	0	Planted Mixed Pines			
17	17	0	0	Red Pine			
29	29	0	0	Treed Bog			
419	409	0	10	Upland Conifers		10	
62	62	0	0	Upland Mixed Forest			
5	5	0	0	Upland Spruce/Fir			
41	41	0	0	White Pine			
1,154	1,107	24	22	Total Forested Acres	24	19	3
	96%	2%	2%	Relative Percent			

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5B: Maintain for regeneration purposes	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This stand was seed tree harvested in 2009, the residual stems provide seed and partial shade for regeneration purposes.							
2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Two retention patches with a higher density of cedar.							

## Report 4 – Site Conditions

Escanaba Mgt. Unit  
Dustin Salter : Examiner

Compartment: 41  
Year of Entry: 2025

6	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Two retention patches.							
7	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	10	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer along the Cedar River Pathway.							
8	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	10	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Cedar River Pathway runs through this area.							

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	429 - Mixed Upland Conifers	Sawtimber Well	6.1	70	51-80	N/A	Mature upland conifer stand with a mix of spruce/fir and white pine. The spruce/fir is being defoliated by the spruce budworm. The white pine is very low quality, short and very limby. This stand is ready to be harvested to salvage the spruce/fir and remove the low quality pine. A seed tree harvest will allow the stand to regenerate following the harvest. The stand will be mechanically scarified following the harvest to expose mineral soil to increase the amount of pine regeneration.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Quaking Aspen		2	Pole/Sapling	6	40	Balsam Poplar		
White Spruce		20	Pole/Log/Sap	8	70	Density		
Balsam Fir		20	Pole/Log/Sap	7	70	Avg. Height		
White Pine		45	Log/Pole/Sap	10	70	Size		
Tamarack		2	Pole/Sapling	6	40			
Black Spruce		5	Pole/Sapling	7	70			
Red Maple		6	Log/Pole	11	70			
2	429 - Mixed Upland Conifers	Sapling Well	38.3	14	1-50	N/A	Stand was clearcut in 2016 on contract 032-15-01. Stand was previously thinned in 2009 on contract 031-05-01. This is a mixed conifer stand with some aspen and red maple. The open areas are still seeding in with more pine and spruce/fir.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		10	Sapling	1	7	Blackberry/Raspberry		
White Pine		50	Sapling	2	14	Density		
Quaking Aspen		10	Sapling	3	14	Avg. Height		
Red Pine		5	Sapling	2	14	Size		
Balsam Fir		10	Sapling	2	14			
White Pine		5	Log	16	93			
White Spruce		10	Sapling	2	14			
3	429 - Mixed Upland Conifers	Poletimber Well	37.1	29	51-80	N/A	Stand was clearcut on contract 033-90-01 in 1992. All species were cut; except pine, hemlock, and cedar along with some scattered seed trees. Mixed upland and lowland stand with some pockets of lowland brush. The upland areas have mixed pine and the lower areas have more spruce/fir. In the future this stand could be managed for pine, with future thinnings.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Black Spruce		10	Sapling/Pole	3	29	Tag Alder		
White Spruce		20	Sapling/Pole	3	29	Michigan Holly		
Red Pine		15	Sapling/Pole/Log	4	29	Density		
White Pine		30	Sapling/Pole/Log	4	29	Avg. Height		
Balsam Fir		10	Sapling/Pole	3	29	Size		
Tamarack		5	Sapling/Pole	4	29			
Red Maple		10	Sapling/Pole	3	29			
4	429 - Mixed Upland Conifers	Poletimber Well	34.2	29	1-50	N/A	Stand had the overstory cut in 2016 on contract 032-15-01. Stand was shelterwood cut in 1993 on contract 033-90-01. This stand has three distinct age classes: mature pine and hemlock, 29 year old conifer regeneration, and 7 year old aspen and maple regeneration. The stand is fully stocked with a mix of species and age classes.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Pine		10	Sapling/Pole/Log	4	29	Michigan Holly		
White Pine		45	Sapling/Pole/Log	4	29	Quaking Aspen		
Hemlock		5	Log/Pole	13	97	Density		
Red Maple		30	Sapling/Pole	4	29	Avg. Height		
Balsam Fir		5	Sapling/Pole	3	29	Size		
White Spruce		5	Sapling/Pole	3	29			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
5	4311 - Pine, Aspen Mix	Sawtimber Well	21.4	53	81-110	N/A	Mature aspen and pine stand that is ready to be harvested. The stand will be harvested to regenerate a mix of aspen and pine.																																																				
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6	4139 - Aspen, Mixed Deciduous	Poletimber Well	51.5	47	51-80	N/A	Mature aspen and older maple, ash, and spruce/fir. All species are mature and are ready to be harvested. The stand is about 60% upland. The aspen and hardwood will sprout following the harvest and the conifers will seed in over time.																																																				
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7	42140 - Planted Mixed Pine	Sapling Poor	9.0	4	Immature	N/A	Stand was planted with red pine seedlings in May of 2022. The stand was trenched in summer of 2020. The stand had herbicide sprayed in July of 2021, only about 50% of the saplings/brush/sedge was killed.  Stand was clearcut in 2016 on contract 032-15-01. Stand was previously thinned on contract 031-05-01 in 2009. The stand is on FTP to plant red pine. The prescription was modified in 2016 from seed tree cut to clearcut, via the Chapter 7 process.																																																				
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8	6220 - Alder/willow	Nonstocked	3.2		Unspecified	No	Lowland brush stand with some scattered ash.																																																				
9	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Poor	46.1	7	Immature	N/A	Stand was clearcut in 2016 on contract 032-15-01. Two retention patches were retained, these patches had a higher density of cedar. This stand has regenerated very poorly, the deer have heavily browsed and killed nearly all of the ash and maple stump sprouts. There is some advanced (older) red maple and spruce/fir regeneration. Over time more conifer should seed in. The stand is too wet to try and scarify or plant any trees.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
10	42320 - Upland Spruce	Poletimber Well	4.6	80	51-80	N/A	Fully stocked good quality spruce stand, that is ready to be harvested. Upland stand with a mix of white and black spruce. Some seed trees will be retained to regenerate the stand following the harvest.																																													
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13	429 - Mixed Upland Conifers	Sapling Well	33.0	14	1-50	N/A	Fully stocked two aged stand with mature pine over young pine, spruce, and maple regeneration. The regen varies from 7, 14, and 29 years old. Stand had the overstory removed in 2016 on contract 032-15-01. The white pine and hemlock were retained. Stand was thinned in 1993 and than again in 2008 on contract 032-05-01.																																													
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14	42200 - Natural White Pine	Sawtimber Well	34.4	97	81-110	N/A	Two aged stand with mature pine over a fully stocked understory of pine regeneration. The pine understory is ready to be released. Some seed trees will also be retained to provide more seed and diversity after the harvest. The stand was thinned in 2008 on contract 032-05-01 and previously in 1993.																																													
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15	429 - Mixed Upland Conifers	Sapling Medium	93.6	6	1-50	N/A	<p>This stand was clearcut in 2017 on contract 031-15-01. The hemlock and cedar was retained along with two buffers along narrow ash drains. Some pine seed trees were also retained.</p> <p>There was also a retention patch retained to buffer the Cedar River Pathway running east-west through the stand. Two aged stand with mature pine, hemlock, and cedar over a mix of upland conifers and red maple and aspen. Deer heavily browsed and killed nearly all of the maple and ash stump sprouts following the harvest.</p>																																																							
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16	3105 - Mixed Upland Herbaceous	Nonstocked	3.9		Unspecified	Managed Opening	<p>Managed opening with some cherry and pine around the perimeter.</p>																																																							
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17	6127 - Lowland Pine	Poletimber Well	12.5	32	1-50	N/A	<p>Stand was cut in 1991 on contract 033-90-01. All stems greater than 7 inches were cut. Overall the stand is lowland but there is some upland along the west edge. Fully stocked mixed conifer stand.</p>																																																							
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18	429 - Mixed Upland Conifers	Sapling Poor	11.0	6	Immature	N/A	<p>Stand was seed tree cut in 2017 on contract 031-15-01. Some pine seed trees were retained, along with a retention patch that was retained along the Cedar River Pathway running through the southern edge of the stand. Young stand with a mix of red maple and conifer regeneration. The north portion of the stand is lower and wetter.</p>																																																							
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<b>19</b>	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	18.1	97	51-80	N/A	Mature lowland hardwood stand with some scattered conifers. There is a strip of lowland brush running east to west through the center of the stand. The edges of the stand are higher and have better quality timber. This stand needs to be harvested prior to the emerald ash borer killing all of the ash. The borer is already present in the stand. The hardwoods will stump sprout following the harvest and conifers will seed in with the retention of some seed trees.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Black Ash	30	Pole/Log	8	97	
		Red Maple	40	Log/Pole	10	97	
		White Pine	5	Log/Pole	13	97	
		Paper Birch	10	Pole/Log	8	97	
		Yellow Birch	2	Log/Pole	10	97	
		Balsam Fir	5	Pole/Sap/Log	8		
		Black Spruce	5	Log/Pole/Sap	10	97	
		Northern White Cedar	3	Log/Pole	10	97	
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		White Pine	Low	5 - 10 feet	Sapling		
		Michigan Holly	Medium	5 - 10 feet	Tall Shrub		
<b>20</b>	4319 - Mixed Upland Forest	Poletimber Well	17.7	82	51-80	N/A	Mature upland mixed stand with narrow ash drainages running through it. The Cedar River Pathway runs through the northern portion of the stand. The stand is ready to be harvested, the hardwoods and aspen will sprout following the harvest. And following the harvest the conifer seed trees will allow additional seed to allow more conifers to seed it. Residual trees will be retained along the pathway, to provide partial shade and improve the aesthetics.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Paper Birch	3	Pole/Log	9	82	
		Black Ash	17	Pole/Sap/Log	8	82	
		Red Maple	30	Pole/Log/Sap	9	82	
		Black Spruce	3	Pole/Sap/Log	7	82	
		Red Pine	10	Log/Pole	10	82	
		Northern White Cedar	2	Log/Pole	10	97	
		White Pine	30	Pole/Log/Sap	8	82	
		Balsam Fir	3	Pole/Sapling	7	82	
		Bigtooth Aspen	2	Pole	7		
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Tag Alder	Low	5 - 10 feet	Tall Shrub		
<b>21</b>	6220 - Alder/willow	Nonstocked	21.0		Unspecified	No	Lowland brush stand with some scattered trees.
<b>22</b>	3302 - Low Density Conifer Trees	Nonstocked	64.5	0	Unspecified	4221 - Natural Red Pine	Stand was seed tree cut in 2019 on contract 33-034-15. All white pine was retained along with some red pine seed trees. The Cedar River Pathway traverses through this stand and a fifty foot buffer was retained along it. There were also two retention patches retained. This stand was scarified in November of 2021 with a skidder and anchor chains. About 60 to 70% of the harvested area was dry enough to scarify. There is some pine, spruce and red maple seedlings, but it will take longer to fully regenerate this stand.
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Black Spruce	Low	< 5 feet	Sapling		
		White Pine	Low	>20 feet	Log		
		Red Pine	Low	>20 feet	Log		
		Red Pine	Low	< 5 feet	Sapling		
		Black Spruce	Low	>20 feet	Pole		
		Red Maple	Low	5 - 10 feet	Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
23	4319 - Mixed Upland Forest	Sapling Medium	13.7	6	Immature	N/A	Stand was clearcut in 2017 on contract 33-034-15. Some seed trees were marked to retain. The stand is regenerating with a mix of red maple, pine, and spruce. There is some advanced conifer regeneration in parts of the stand. A high percentage of the aspen and red maple sprouts following the harvest have been heavily browsed and killed by deer. The stand will continue to regenerate with conifers.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		45	Sapling/Pole	1	6	Tag Alder		
White Pine		20	Sapling/Pole/Log	2		Density		
Quaking Aspen		10	Sapling	1	6	Avg. Height		
Black Spruce		10	Sapling	1	6	Size		
Red Pine		15	Sapling	1	6			
24	6122 - Black Spruce	Poletimber Well	7.2	97	51-80	N/A	Mature good quality black spruce stand. This stand is ready to be harvested. This stand will regenerate with a mix of conifer species following the harvest. A mix of seed trees will be retained to provide additional seed.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Pine		2	Log/Pole	10	97	Leatherleaf		
Black Spruce		70	Pole/Sap/Log	8	97	Density		
White Pine		13	Pole/Log/Sap	8	97	Avg. Height		
Tamarack		10	Pole/Sapling	7	97	Size		
Black Ash		3	Pole/Sapling	7	97			
Paper Birch		2	Pole/Log	8	97			
25	6220 - Alder/willow	Nonstocked	64.5		Unspecified	No	Lowland brush stand with more of a treed bog on the east edge.	
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
Black Spruce		Medium	>20 feet	Sapling				
26	429 - Mixed Upland Conifers	Poletimber Well	40.7	30	51-80	N/A	Stand was cut on contract in 1993. The Cedar River Pathway runs through the eastern half of this stand. Fully stocked upland conifer stand, with a higher density of red maple in the center. There are some residual seed tree cedar, pine and hardwoods. Possibly manage this stand for pine going forward, with thinnings.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Tamarack		2	Pole/Sapling	5	30	Michigan Holly		
White Pine		40	Pole/Log/Sap	6	30	Density		
Northern White Cedar		2	Log/Pole	10	97	Avg. Height		
Balsam Fir		3	Pole/Sapling	5	30	Size		
Red Maple		23	Pole/Log/Sap	5	30			
Black Spruce		20	Sapling/Pole	4	30			
Red Pine		10	Pole/Log/Sap	5	30			
27	429 - Mixed Upland Conifers	Poletimber Well	33.4	30	1-50	N/A	Stand is a mix of upland conifers and red maple. There is a mix of 30 year old regeneration and 4 year old regeneration from the most recent harvest. The stand also has some seed tree pine, along with some hemlock and cedar. This stand was cut in 2019 on contract 031-15-01. Trees greater than 6" were cut. This stand was previously cut in 1993 on contract 014-91-01. The pine was marked to cut and all other species over 7 inches were cut; except hemlock and cedar. This harvest opened up the stand allowing for a large amount of regeneration. This last harvest removed the overstory releasing the regeneration.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Pine		12	Sapling/Pole	4	30	Quaking Aspen		
Balsam Fir		5	Sapling/Pole	4	30	Density		
Black Spruce		20	Pole/Sapling	5	30	Avg. Height		
Red Maple		20	Pole/Sapling	5	30	Size		
White Pine		35	Pole/Sap/Log	5	30			
Hemlock		5	Log/Pole	12	97			
Northern White Cedar		3	Log/Pole	10	97			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
28	6131 - Hemlock, White Pine, Maple, Birch	Sapling Medium	27.6	5	Immature	N/A	Stand was clearcut in 2018 on contract 031-15-01. The hemlock, cedar, and pine were retained, along with some other conifer seed trees. Lowland hardwood stand with some pine and spruce regeneration. The stand will continue to seed in with more conifers over time. Deer have heavily browsed and killed most of the ash stump sprouts and about half of the red maple stump sprouts following the harvest.																																											
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29	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	14.2	70	51-80	N/A	Stand was cut in 1993 on contract 014-91-01. All species greater than 6 inches were cut; except pine, hemlock, and cedar. The pine was marked to cut. Uneven aged stand there is mature pine, and red maple with younger aspen and fir. Seed tree cut this stand next entry.																																											
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30	42200 - Natural White Pine	Sawtimber Well	6.2	84	141-170	N/A	Stand was cut in 1993 on contract 014-91-01. All species greater than 6 inches were cut; except cedar, hemlock, and pine. Some pine was marked to cut. Mature white pine stand over a dense understory of red maple saplings. The stand will be thinned to improve the growth of the residual trees and to release some of the red maple saplings.																																											
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31	429 - Mixed Upland Conifers	Poletimber Well	13.0	68	81-110	N/A	Mature balsam fir and pine stand with some deciduous species. The balsam fir has some spruce budworm defoliation, but no mortality at this time. The stand will be harvested to regenerate the stand to a mix of the current species. Some seed trees will be retained to provide a seed source, partial shade, and diversity. The maple, aspen, and ash will stump sprout following the harvest and the conifers will seed in over time. The stand was cut in 1993 on contract 014-91-01. All species greater than 6 inches were cut; except cedar, hemlock, and pine. Some pine was marked to cut.																																											
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32	429 - Mixed Upland Conifers	Poletimber Well	18.7	97	51-80	N/A	Stand was cut in 1993 on contract 014-91-01. All species greater than 6 inches were cut; except cedar, hemlock, and pine. Some pine were marked to cut. This stand is an upland mixed conifer stand with some aspen and red maple and is a mix of age classes.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>33</b>	4319 - Mixed Upland Forest	Sapling Well	9.1	16	1-50	N/A	This stand was shelterwood cut in 2016 on contract 030-15-01. The beech, hemlock and cedar was retained. Also, some pine and mixed hardwoods were marked to retain. The stand was previously cut in 2007 on contract 032-05-01. The stand is an upland mix of conifers and hardwoods. Nearly all of the maple and ash stump sprouts from two harvests have been browsed and killed by deer.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Green Ash		3	Sapling	1	7	Ironwood		
Quaking Aspen		25	Sapling	3	16	Blackberry/Raspberry		
White Pine		5	Log/XLog	16	97			
Hemlock		5	Log/Pole	13	97			
Red Maple		15	Sapling	1	7			
Balsam Fir		15	Sapling	1	16			
Beech		2	Log/Pole	12	97			
White Pine		30	Sapling	1	16			
<b>34</b>	429 - Mixed Upland Conifers	Poletimber Well	17.5	34	51-80	N/A	Stand was clearcut in 1989 on contract 014-87-01. All trees were cut; except pine, hemlock, and cedar. The Cedar River Pathway runs through the southwest corner of the stand. Fully stocked aspen and upland conifer stand. There is a strip of lowland brush in the center 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>		
Quaking Aspen		35	Pole/Sapling	5	34	Tag Alder		
White Spruce		10	Sapling/Pole	4	34	Willow spp.		
Balsam Fir		15	Sapling/Pole	4	34			
White Pine		15	Pole/Sapling	5	34			
Red Pine		20	Pole/Sapling	5	34			
Red Maple		5	Sapling/Pole	4	34			
<b>35</b>	429 - Mixed Upland Conifers	Sapling Medium	14.3	7	1-50	N/A	Stand was clearcut in 2016 on contract 030-15-01. Some pine seed trees were marked to retain. The stand was previously cut in 2008 on contract 032-05-01, the aspen, birch and balsam fir was cut. Stand is regenerating with a mix of upland conifers and aspen. The majority of the maple and ash sprouts from the harvests have been browsed and killed by deer.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		10	Sapling	1	7	Blackberry/Raspberry		
White Spruce		10	Sapling	1	7			
White Pine		35	Sapling	1	7			
Red Pine		5	Sapling	1	7			
Red Pine		8	Log	16	97			
Balsam Fir		10	Sapling	1	7			
Quaking Aspen		20	Sapling	1	7			
White Pine		2	Log	16	97			
<b>36</b>	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	86.2	30	1-50	N/A	About 15 acres of this stand was planted with red pine seedlings in May of 2022. The stand was trenched in summer of 2020. The stand had herbicide sprayed in July of 2021, only about 50% of the saplings/brush/sedge was killed.  Stand was cut in 2016 and 2018 on contract 030-15-01. All trees were cut, except white pine and a mix of seed trees. The stand was previously cut in 1993 on contract 014-91-01. All species greater than 6 inches were cut; except cedar, hemlock, and pine. Some pine was marked to cut. The Cedar River Pathway runs through this stand. There was a 50 foot buffer left along the trail. The stand is a mix of mature white pine, 30 year old regeneration, 7 year old regeneration and some planted 4 year old red pine seedlings. The lowland areas are filling in with black spruce, white pine, and tamarack.	
<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	12	99	Leatherleaf		
White Pine		25	Sapling	3	30			
Red Pine		5	Log	15	99			
Red Maple		10	Sapling	1	7			
Red Pine		10	Sapling	1	4			
Hemlock		2	Log/Pole	10	99			
Tamarack		8	Sapling	1	7			
Black Spruce		25	Sapling	1	7			





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
<b>37</b>	6224 - Treed Bog	Nonstocked	3.0		Unspecified	No	Treed bog with black spruce and white pine saplings and poles.																																										
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<b>38</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	41.7	90	81-110	N/A	Good quality mature black spruce stand with ridges of mature red pine. The southern end of the stand has more white pine. All species are mature and ready to be harvested. Seed trees will be retained to provide additional seed and diversity after the stand is harvested. The stand will regenerate with a mix of conifers.																																										
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<b>39</b>	429 - Mixed Upland Conifers	Sapling Well	16.7	21	Immature	N/A	Stand was clearcut in 2002 on contract 040-00-01. All species were cut; except cedar, hemlock, and some seed trees. Stand has fully regenerated to a mix of conifer species. The stand is a mix of upland and lowland, but overall there is more upland.																																										
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<b>40</b>	429 - Mixed Upland Conifers	Poletimber Well	11.3	73	51-80	N/A	Upland white pine and spruce stand with pockets of lowland red maple and lowland brush. Look at harvesting next entry.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>41</b>	42210 - Natural Red Pine	Sawtimber Well	17.0	100	51-80	N/A	Mature red pine stand with a dense understory of mostly conifer regeneration. Stand was thinned in 2001 on contract 040-00-01. All species were cut; except pine, hemlock, and cedar. The pine was thinned. The overstory needs to be removed to release the advanced regeneration and to allow for more red pine to seed in following the harvest. Red pine seed trees will be retained to provide additional seed.	
<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	Log/Pole	12	100	Red Maple		
Red Pine		65	Log/Pole	16	100	Black Spruce		
Red Maple		20	Log/Pole	10	100	White Pine		
Bigtooth Aspen		5	Log/Pole	14		Bigtooth Aspen		
Black Spruce		5	Pole/Sap/Log	8	100	Red Pine		
						Tamarack		
						Density		
						Avg. Height		
						Size		
<b>42</b>	6127 - Lowland Pine	Poletimber Poor	24.4	90	1-50	N/A	This stand was privately owned last entry period, it was purchased by the state in 2009. The stand was cut around 2004. This stand is about 60% lowland with scattered upland knobs/ridges of pine and red maple. The lowland areas are regenerating with white pine and spruce and the upland areas have red pine, maple, and aspen regeneration.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Black Spruce		10	Pole/Log	8	90	White Pine		
Red Maple		20	Log/Pole	10	90	Red Pine		
Red Pine		30	Log/Pole	10	90	Black Spruce		
White Pine		40	Log/Pole	12	90	Bigtooth Aspen		
						Red Maple		
						Density		
						Avg. Height		
						Size		
<b>43</b>	6220 - Alder/willow	Nonstocked	6.8		Unspecified	No	Lowland brush stand with some scattered clumps of spruce and white pine.	
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
Black Spruce		Low	>20 feet	Pole				
White Pine		Low	>20 feet	Log				
<b>44</b>	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	21.1	45	51-80	N/A	Two aged stand with mature red ample and white pine with younger red pine and aspen. The red pine is variable in age. Possibly thin this stand next entry. This stand was privately owned last entry period, it was purchased by the state in 2009. The stand was cut around 2004.	
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Paper Birch		10	Log/Pole	10	80	Michigan Holly		
White Pine		15	Log/Pole/Sap	12	80	Density		
Bigtooth Aspen		15	Pole/Log	8	45	Avg. Height		
Red Pine		45	Pole/Log/Sap	9	45	Size		
Red Maple		15	Log/Pole	10	80			