



# Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33037

Entry Year 2025

Acreage: 2,048

County Menominee

Management Area: Green Bay

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**Stand Examiner:** Dan Beaudo

**Legal Description:**

T36N, R24W, Sections 4, 5, 6, 7, 8 and 9.

**Identified Planning Goals:**

This compartment is part of the Green Bay Management Area and is located about 10 miles north of Cedar River, Michigan at the Menominee-Delta County line. It is a mixture of upland and lowland types. Upland types compose slightly over half of the compartment and include mostly aspen, mixed deciduous, red maple and hemlock forest types. Lowland types are just under half of the compartment and include mostly cedar and lowland deciduous timber types. In places Michigan holly is quite dense.

Treatments consist of 38 acres northern hardwood selection harvest, 48 acres SBW treatment on mixed conifer, 65 acres clearcut on mixed deciduous, 45 acres of aspen clearcut, 57 acres of lowland deciduous clearcut and 22 acres shelterwood harvest on an upland mixed stand.

The large amount of ash containing stands were treated last inventory cycle with 14 acres being treated this cycle in preparation for Emerald Ash Borer(EAB) mortality. Spruce Budworm(SBW) is present in the area with three stands being treated for both EAB and SBW.

**Soil and topography:**

The major soil series are primarily complexes including Deford, Rousseau, Lupton, Tawas and Cathro for the lowlands and Solona, Engalls, Bowers and Johnswood for the uplands. Topography is mostly level to gently rolling in a few areas.

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

The compartment is part of a mostly contiguous block of state ownership with a few private in-holdings. Most private ownership is recreational for seasonal hunting, fishing and other recreation though a few permanent residents are nearby on Highway M-35.

**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.

**Watershed and Fisheries Considerations:**

This compartment contains Deer Creek, Olsen Creek, unnamed tributaries and wetlands. A 100' buffer is recommended on all waterbodies within this compartment.

**Wildlife Habitat Considerations:**

Compartment 37 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. Most of the compartment consists of low wetlands, which would inhibit surface mining. Furthermore, surface sediments appear to contain significant amounts of clay. 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 may be potential for iron ore or other metallic and critical minerals beneath the compartment, but they would occur at significant depth and may not have significant economic value. Additional research is needed. There is no current leasing activity involving State-owned mineral rights in the area. 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:**

The main access through this compartment is from the North Fox Road which traverses east and west. Several two track roads branch off of it. The northern portion of the compartment is accessed from the Limpert Road. Highway M-35 lies in the eastern portion of the compartment and provides class A access. Blue Fox 28.9 Lane provides access to the eastern portion of the compartment.

#### **Survey Needs:**

One survey corner for the proposed treatments.

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

No facilities currently exist. Recreational opportunities include hunting, fishing, trapping and horseback riding.

#### **Fire Protection:**

Most of this compartment is lowland forest types and consist mainly of non-fire species. Access into most of the eastern and southern portions is very good using M-35 and North Fox Road. Access to the northern edge of the compartment is fairly good using several two track roads off of the Deer Pond Road and Limpert Road. However, due to the large area of lowland types, no summer travelable roads currently exist to access section 6 and the western part of section 5.

#### **Additional Compartment Information:**

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

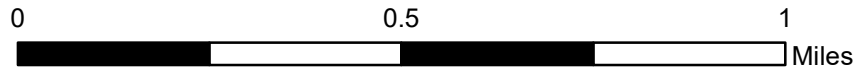
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

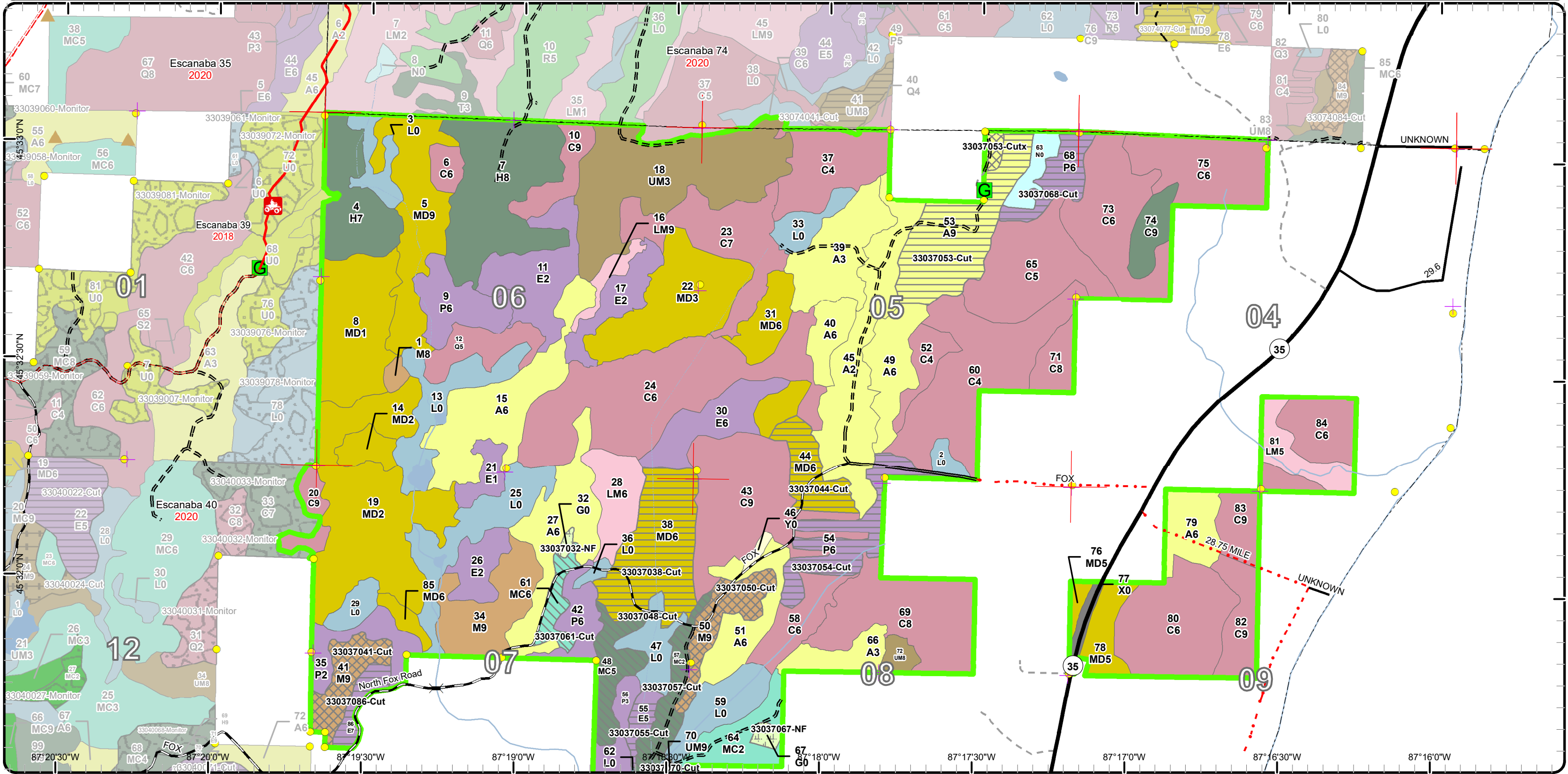
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 37  
 T36N-R24W Sec. 4-9  
 County: Menominee  
 Unit: Escanaba  
 Mgmt Area: Green Bay  
 YOE: 2025  
 Acres: 2047.8 GIS Calculated  
 Examiner: Dan Beaudou  
 Map Revised: 6/26/2023  
 Map Phase: Web-Post

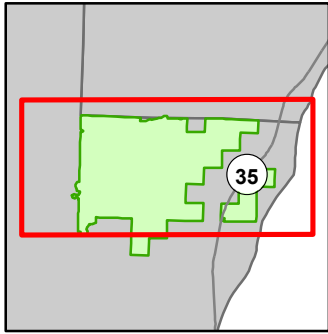
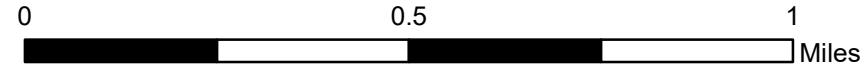


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
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- - - Designated ORV Route
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- G Gate
- ✈ Bridges
- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- Compartment Boundary
- Other Harvest - See Comments
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand/Soil

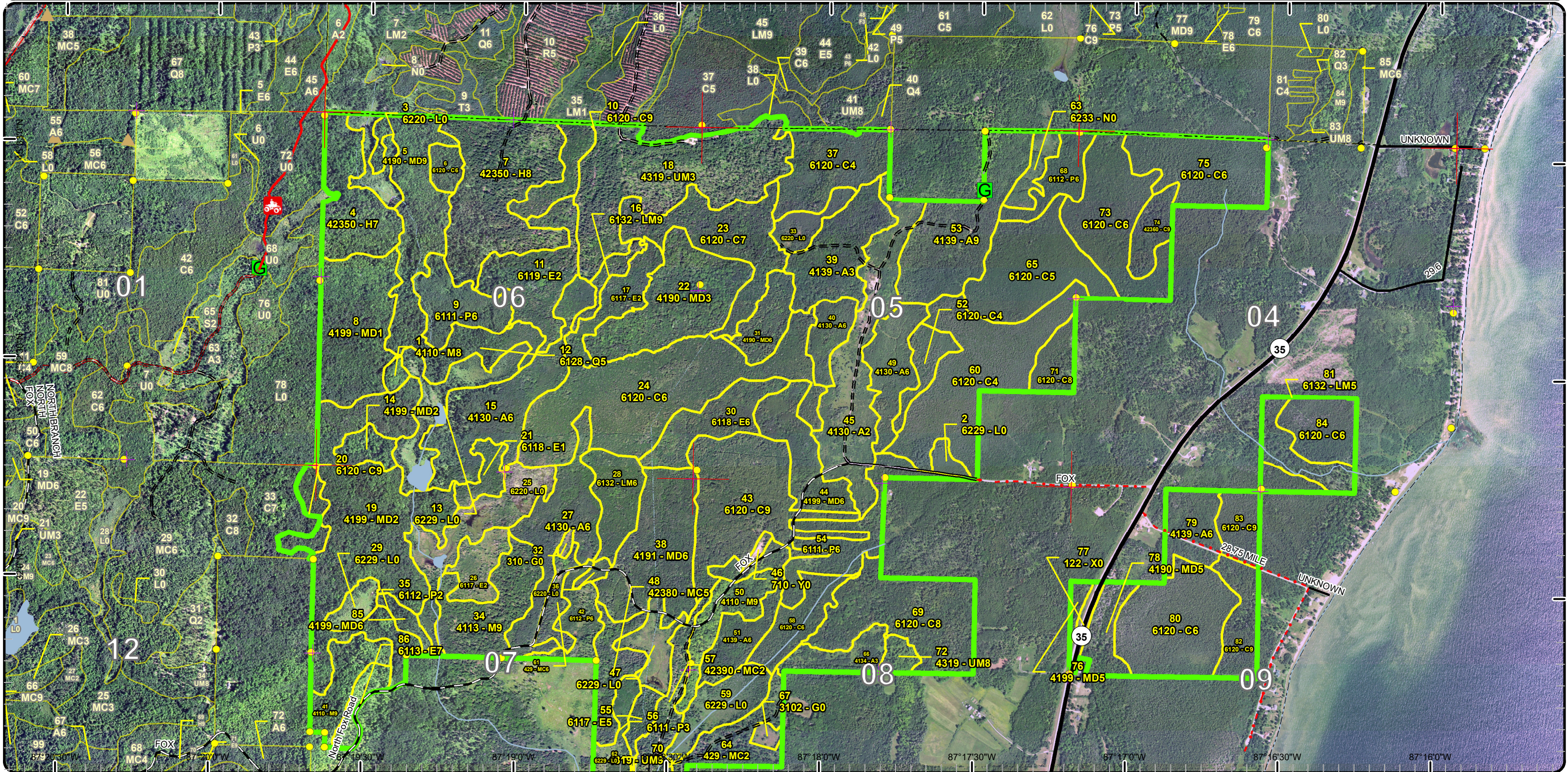


# Stand Boundary Map

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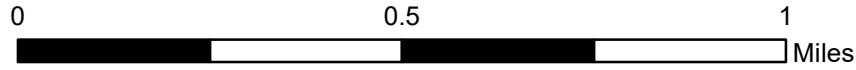


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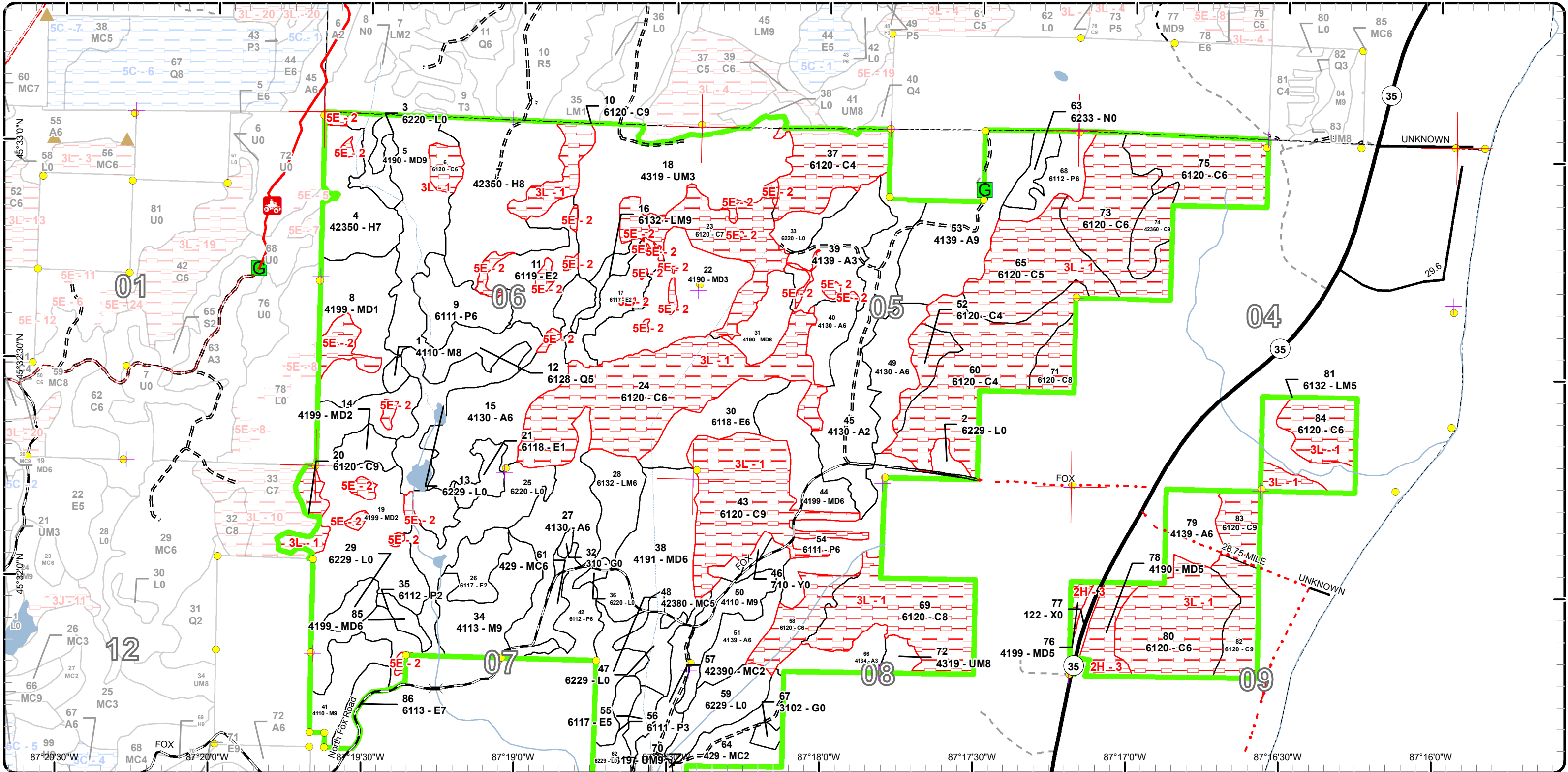


# Special Conservation Areas

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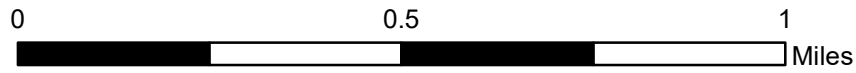


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- 3L: Other wildlife concerns
- 5E: Long-Term Retention
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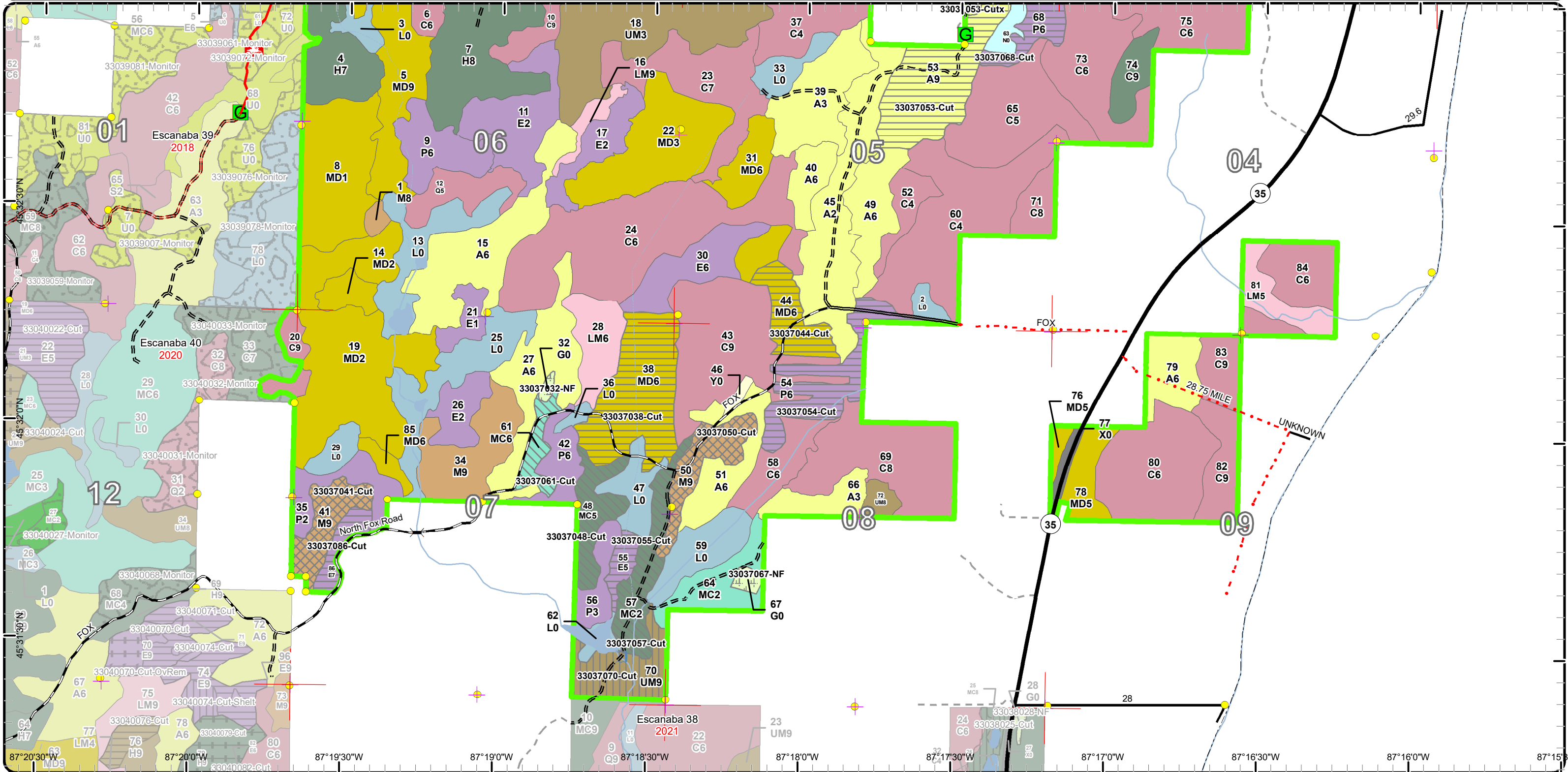


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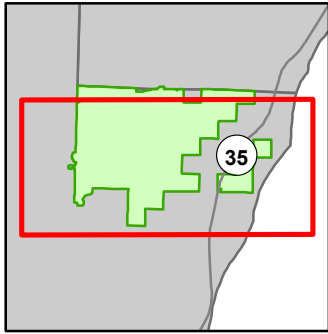
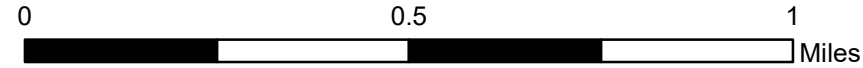


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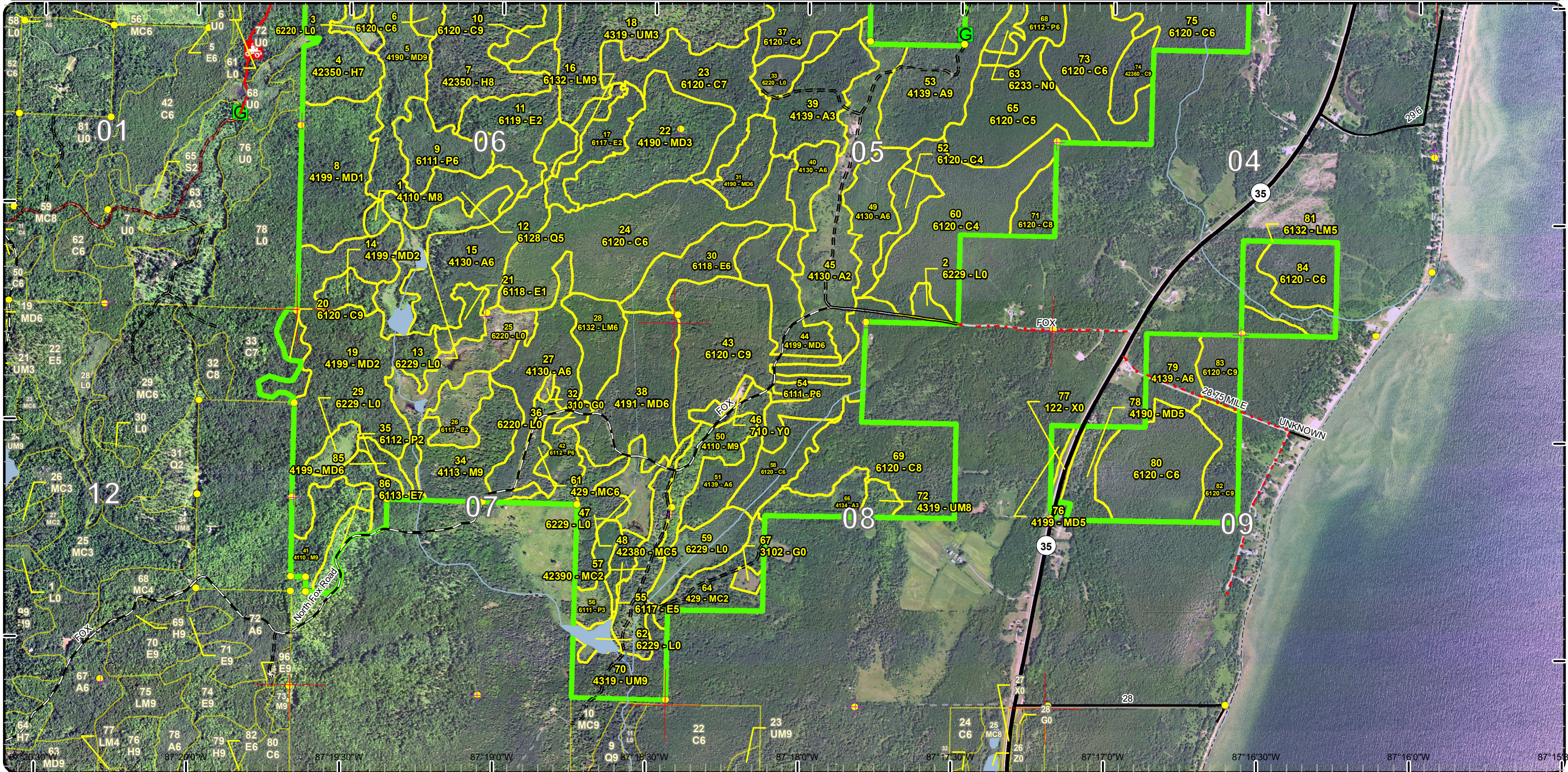


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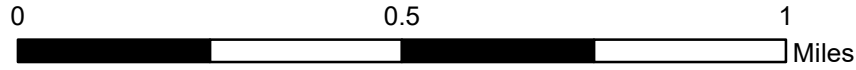


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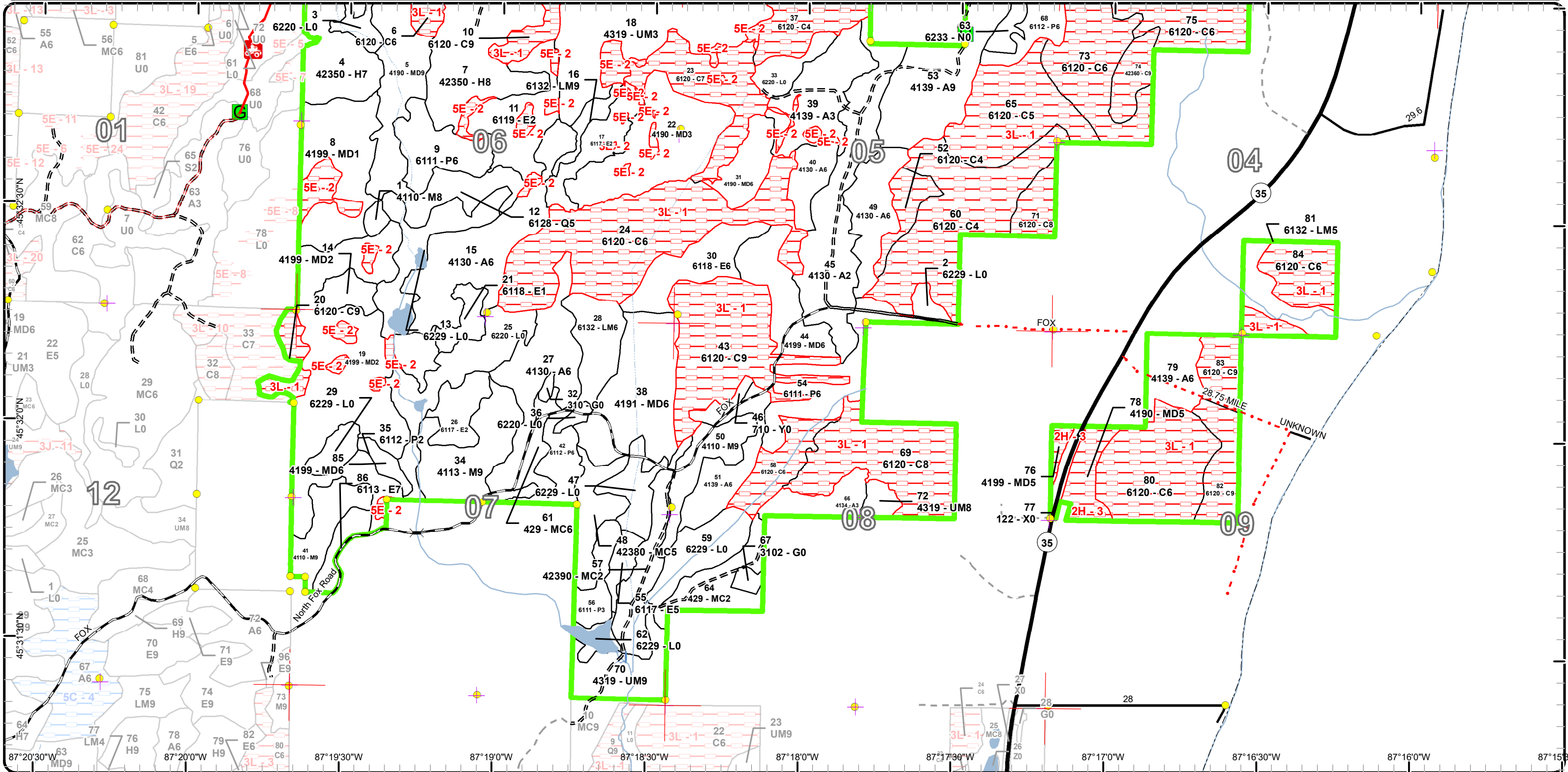


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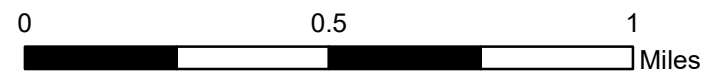
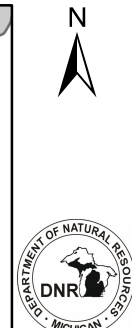
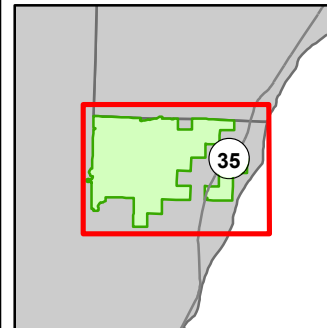


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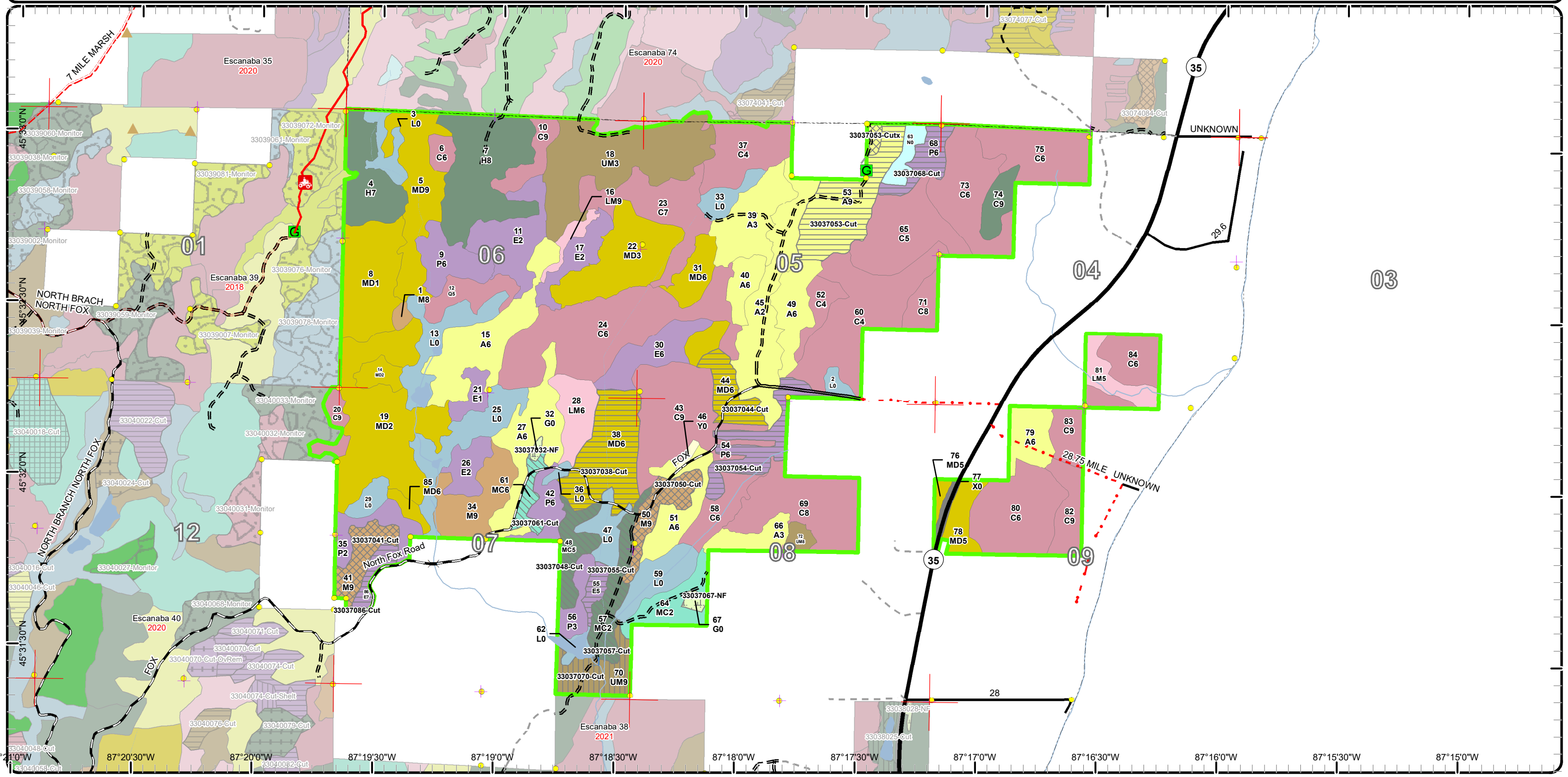




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Report 1 – Total Acres by Cover Type and Age Class



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	32	54	13	159	48	0	0	0	0	0	0	0	0	0	0	0	0	306
Cedar	0	0	0	0	0	0	0	0	0	0	0	9	253	223	163	0	0	0	648
Hemlock	0	0	0	0	0	0	0	0	0	0	0	33	0	63	0	0	0	0	96
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Aspen/Balsam Poplar	0	16	25	0	22	28	15	0	0	0	0	0	0	0	0	0	0	0	106
Lowland Conifers	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Deciduous	0	56	13	0	0	29	0	0	0	8	0	0	0	0	0	0	0	0	106
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	34	0	0	40
Lowland Shrub	128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128
Marsh	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Mixed Upland Deciduous	0	187	0	15	0	0	80	0	45	0	0	0	0	0	0	13	0	0	339
Northern Hardwood	0	0	0	0	0	0	0	0	0	52	18	0	0	0	0	0	0	0	70
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Conifers	0	0	22	20	9	17	0	0	0	0	0	0	0	0	0	0	0	0	67
Upland Mixed Forest	0	0	78	0	0	0	0	0	0	0	5	0	0	0	22	0	0	0	105
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
<b>Total</b>	<b>147</b>	<b>291</b>	<b>192</b>	<b>48</b>	<b>206</b>	<b>122</b>	<b>95</b>	<b>0</b>	<b>45</b>	<b>60</b>	<b>23</b>	<b>0</b>	<b>42</b>	<b>259</b>	<b>308</b>	<b>210</b>	<b>0</b>	<b>0</b>	<b>2046</b>



## Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 37

Total Compartment Acres: 2,048

Commercial Harvest - 274  
 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	45	3	0	0	0	0	0	0	0	48
Lowland Aspen/Balsam Poplar	42	0	0	0	0	0	0	0	0	42
Lowland Deciduous	14	0	0	0	0	0	0	0	0	14
Mixed Upland Deciduous	65	0	0	0	0	0	0	0	0	65
Northern Hardwood	0	35	0	0	0	0	0	0	0	35
Upland Conifers	0	0	0	0	0	0	0	0	48	48
Upland Mixed Forest	0	0	0	0	22	0	0	0	0	22
<b>Total</b>	<b>166</b>	<b>38</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>48</b>	<b>274</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	274	0	0	0	0	0	0	4	0	278
Next Step	0	0	0	0	0	0	274	0	0	274
<b>Total</b>	<b>274</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>274</b>	<b>4</b>	<b>0</b>	<b>553</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>32</b>	<b>33037032-NF</b>	1.3	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> 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.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Proposed Start Date: 8 /30/2023</p>											
<b>38</b>	<b>33037038-Cut</b>	47.4	4191 - Mixed Upland Deciduous with Conifer	Poetimber Well	54	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees that are 3" dbh and larger except leave pine, cedar, hemlock and yellow birch. The 3% retention can be along the edge.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Species within the canopy layers.</p> <p><u>Other Comment:</u> Spruce budworm is noticeable in the stand with balsam fir and spruce defoliation. Half the stand is balsam poplar and aspen that is overmature. Retain trace species for diversity, seed source and wildlife values.</p> <p>Clearcutting is the solution to forest types whose seedlings or sprouts require full sunlight. Seeds and buds respond well to the warmed ground. The abundance of light produces excellent growth, some of the fastest we have. Species such as aspen, paper birch and jack pine require full sunlight.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2024</p>											
<b>41</b>	<b>33037041-Cut</b>	17.3	4110 - Sugar Maple Association	Sawtimber Well	85	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription Specs:</u> Selection thin stand to 60-80 basal area according to the Compleat Marker Guidelines. Cut all merchantable balsam and spruce due to the presence of spruce budworm. Do not cut hemlock.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Species in the canopy layers.</p> <p><u>Other Comment:</u> Northern hardwood stands are recommended to be thinned at least every 15 years to improve health, productivity and stimulate regeneration. Selection harvesting may be the most misunderstood system and is certainly the most complex. When stands of trees become overly dense, forest health risks increase. Removing the higher-risk trees and leaving the trees with higher potential improves the quality and character of the forest. The partially-opened canopy allows enough light to accelerate individual tree health, vigor and allows seedlings to grow. The young trees eventually replace the older trees as the older trees either die or are harvested.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2024</p>											



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
44	33037044-Cut	17.5	4199 - Other Mixed Upland Deciduous	Poletimber Well	55	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Two-Aged	No
<p><u>Prescription</u> Cut all trees greater than 3" except leave cedar, hemlock, pine, yellow birch and the northern portion of stand for retention.</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> Species in the canopy layers.</p> <p><u>Other Comment:</u> Stand has signs of Emerald Ash Borer and Spruce Budworm. Some species are also mature. Clearcutting will provide full sunlight to the ground which will stimulate germination and stump/root sprouting.</p> <p>Clearcutting is the solution to forest types whose seedlings or sprouts require full sunlight. Seeds and buds respond well to the warmed ground. The abundance of light produces excellent growth, some of the fastest we have. Species such as aspen, paper birch and jack pine require full sunlight.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
48	33037048-Cut	17.3	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Medium	47	51-80	Harvest	Other - Specify	4319 - Mixed Upland Forest	Uneven-Aged	No
<p><u>Prescription</u> Cut all merchantable species except cedar, hemlock, yellow birch, and pine. Also, leave maple less than 6" dbh due to clumps formed by stump sprouts of variable diameter. Cedar and pine can be harvested for operational purposes.</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> Species within the canopy layers.</p> <p><u>Other Comment:</u> Stand has presence of spruce budworm defoliating the balsam fir and spruce. Emerald ash borer is also in the area. This harvest is due primarily to forest health issues and will mimic a shelterwood harvest.</p> <p>The shelterwood system lies somewhere in between the visual extremes of clearcutting and selection management. The parent forest is removed in several stages, with each stage successively establishing optimum environmental conditions for tree regeneration and then nursing the regeneration along to a point where the remaining parent forest can be harvested. Red oaks and white pine stands will often benefit from shelterwood harvesting.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
50	33037050-Cut	17.8	4110 - Sugar Maple Association	Sawtimber Well	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selection thin stand to 60-80 basal area according to the Compleat Marker Guidelines. All species except for hemlock may be harvested to obtain this basal area. Cut all merchantable balsam and spruce due to spruce budworm presence.</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> Species within the canopy layers.</p> <p><u>Other Comment:</u> This stand is in conditional deer wintering range and has a canopy composition of 5% cedar. Cedar in this stand is lacking in shelter qualities, and WLD and FRD are in agreement that cedar may be harvested.</p> <p>Northern hardwood stands are recommended to be thinned at least every 15 years to improve health, productivity and stimulate regeneration. The Northern Hardwood covertime in a minority in this Compartment. Priority to promote associated species to maintain and regenerate by thinning none norther hardwood species from the stand.</p> <p>Selection harvesting may be the most misunderstood system and is certainly the most complex. When stands of trees become overly dense, forest health risks increase. Removing the higher-risk trees and leaving the trees with higher potential improves the quality and character of the forest. The partially-opened canopy allows enough light to accelerate individual tree health, vigor and allows seedlings to grow. The young trees eventually replace the older trees as the older trees either die or are harvested.</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
<b>53 33037053-Cut</b>	44.6	4139 - Aspen, Mixed Deciduous	Sawtimber Well	48	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Clearcut: Cut all 3" and greater, except only cut marked sugar maple and leave some scattered large deciduous mast and cavity trees along with 3% retention which can be along the edge. In the northwest corner of the stand is a small patch of sugar maple that is to be selection marked thinning the sugar maple to around 70 basal area.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Species within the canopy layers.</p> <p><u>Other Comment:</u> Stand is mature aspen with ash that is starting to show signs of Emerald ash borer presence. Clearcutting is the solution to forest types whose seedlings or sprouts require full sunlight. Seeds and buds respond well to the warmed ground. The abundance of light produces excellent growth, some of the fastest we have. Species such as aspen, paper birch and jack pine require full sunlight.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2024</p>										
<b>53 33037053-Cutx</b>	3.1	4139 - Aspen, Mixed Deciduous	Sawtimber Well	48	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Selection thinning - Thin stand down to 60-80 basal area using the Compleat Marker guidelines. Cut all ash, balsam fir and spruce greater than 3" due to forest health issues.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Species within the canopy layer.</p> <p><u>Other Comment:</u> Northern hardwood stands are recommended to be thinned at least every 15 years to improve health, productivity and stimulate regeneration. Selection harvesting may be the most misunderstood system and is certainly the most complex. When stands of trees become overly dense, forest health risks increase. Removing the higher-risk trees and leaving the trees with higher potential improves the quality and character of the forest. The partially-opened canopy allows enough light to accelerate individual tree health, vigor and allows seedlings to grow. The young trees eventually replace the older trees as the older trees either die or are harvested.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2024</p>										
<b>54 33037054-Cut</b>	27.8	6111 - Lowland Balsam Poplar	Poetimber Well	44	81-110	Harvest	Clearcut	611 - Lowland Deciduous Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than 3" except leave birch and maple less than 6" dbh and leave hemlock if present. Mark to leave some cedar and large deciduous seed trees. There is a drainage in southeast portion of stand that will need to be determined if a buffer is needed. Less than 50 cords of cedar.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Species in the canopy layers.</p> <p><u>Other Comment:</u> This stand is in conditional deer wintering range and has a canopy composition of 5% cedar. Cedar in this stand is lacking in shelter qualities, and extensive cedar stands are found adjacent. WLD and FRD are in agreement that cedar may be harvested. Stand has signs of Emerald Ash Borer with a high concentration of ash in the stand. Treat stand due to forest health reasons with the aspen and balsam poplar being mature as well. Clearcutting is the solution to forest types whose seedlings or sprouts require full sunlight. Seeds and buds respond well to the warmed ground. The abundance of light produces excellent growth, some of the fastest we have. Species such as aspen, paper birch and jack pine require full sunlight.</p> <p><u>Site Condition</u> Proposed Start Date: 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
<b>55 33037055-Cut</b>	6.1	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	45	1-50	Harvest	Clearcut	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than 3" dbh. No retention due to forest health issues and small stand size.</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> Species in the canopy layers.</p> <p><u>Other Comment:</u> This stand is in conditional deer wintering range and has a canopy composition of 5% cedar. Cedar in this stand is lacking in shelter qualities, and WLD and FRD are in agreement that cedar may be harvested.</p> <p>Harvest due to forest health reasons with Emerald Ash Borer and Spruce Budworm in stand and vicinity. Small stand recommended removal of all moth inceptor trees. Clearcut harvest will stimulate stump and root regeneration on the ash, aspen and balsam poplar and get full sunlight to the ground improving seed germination conditions.</p> <p>Clearcutting is the solution to forest types whose seedlings or sprouts require full sunlight. Seeds and buds respond well to the warmed ground. The abundance of light produces excellent growth, some of the fastest we have. Species such as aspen, paper birch and jack pine require full sunlight.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>57 33037057-Cut</b>	22.3	42390 - Mixed Non-Pine Upland Conifers	Sapling Medium	13	1-50	Harvest	Other - Specify	429 - Mixed Upland Conifers	Uneven-Aged	No
<p><u>Prescription</u> Due to Spruce Budworm infestation, cut all merchantable balsam fir and spruce. Due to Emerald Ash Borer presence cut all ash greater than 6" dbh. Only cut other species for operational purposes.</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> Species within the canopy layers.</p> <p><u>Other Comment:</u> This stand is in conditional deer wintering range and has a canopy composition of 20% cedar. WLD and FRD are in agreement that cedar may only be cut for operational purposes.</p> <p>The last treatment retained mid-sized balsam and spruce that now have defoliation from Spruce Budworm with mortality in some trees. Treatment to this stand is to remove SBW infested trees of balsam fir, spruce and ash due to EAB presence to help slow the spread and remove the transfer down to younger, healthier trees.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>61 33037061-Cut</b>	8.5	429 - Mixed Upland Conifers	Poletimber Well	34	Immature	Harvest	Other - Specify	429 - Mixed Upland Conifers	Uneven-Aged	No
<p><u>Prescription</u> Spruce Budworm in this stand and Emerald ash borer near by. Cut all merchantable ash, aspen, balsam poplar, balsam fir and spruce.</p> <p><u>Specs:</u> Harvest other species only for operational purposes.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Species within the canopy layers.</p> <p><u>Other Comment:</u> This portion of stand 27 was delineated out due to the higher percentage of balsam fir and spruce that is infested with Spruce Budworm. This treatment is to address the forest health issues with Spruce Budworm and Emerald Ash Borer presence.</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
<b>67 33037067-NF</b>	2.7	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> 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.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 8 /30/2023</p>										
<b>68 33037068-Cut</b>	14.6	6112 - Lowland Aspen	Poetimber Well	52	81-110	Harvest	Clearcut	611 - Lowland Deciduous Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than 3" dbh including cedar which will be less than 40 cords.</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> Species within the canopy layers.</p> <p><u>Other Comment:</u> This stand is in conditional deer wintering range and has a canopy composition of 5% cedar. Cedar in this stand is lacking in shelter qualities, and extensive cedar stands are found adjacent. WLD and FRD are in agreement that cedar may be harvested.</p> <p>Ash, balsam fir and spruce make up half of the canopy. Emerald Ash Borer and Spruce Budworm are present in the stand. Aspen and balsam poplar are mature. This harvest will address the forest health issue and regenerate the mature species. Cedar take will be minimal having adjacent large cedar stands present.</p> <p>Clearcutting is the solution to forest types whose seedlings or sprouts require full sunlight. Seeds and buds respond well to the warmed ground. The abundance of light produces excellent growth, some of the fastest we have. Species such as aspen, paper birch and jack pine require full sunlight.</p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2024</p>										
<b>70 33037070-Cut</b>	21.9	4319 - Mixed Upland Forest	Sawtimber Well	130	141-170	Harvest	Shelterwood	4319 - Mixed Upland Forest	Uneven-Aged	No
<p><u>Prescription</u> Cut all merchantable trees except cedar, hemlock, some large deciduous trees and the denser cedar patch in the southeast portion of the stand. Also buffer the Deer creek and tributaries. Cedar may be cut for operational purposes amounting to approximately less than 20 cords.</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> Species within the canopy layers.</p> <p><u>Other Comment:</u> This stand is in conditional deer wintering range and has a canopy composition of 25% cedar. WLD and FRD are in agreement that cedar may only be cut for operational purposes.</p> <p>Stand has several other species beside cedar and hemlock that are mature with mortality setting in. Treat stand to utilize these mature trees that will create open gaps promoting regeneration. Forest health concerns with EAB and SBW are present.</p> <p>The shelterwood system lies somewhere in between the visual extremes of clearcutting and selection management. The parent forest is removed in several stages, with each stage successively establishing optimum environmental conditions for tree regeneration and then nursing the regeneration along to a point where the remaining parent forest can be harvested. Red oaks and white pine stands will often benefit from shelterwood harvesting.</p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 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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86	33037086-Cut	8.2	6113 - Lowland Maple	Sawtimber Poor	85	81-110	Harvest	Clearcut	613 - Lowland Mixed Forest	Even-Aged	No
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Prescription Cut all merchantable trees except hemlock. Narrow stand will seed in from adjacent stands. Mark a few healthy seed trees if present.  
Specs:

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

Acceptable Regen: Species within the canopy layers.

Other Comment: Many trees have died in this lower portion. Salvage what is still merchantable. Opening the stand to full sunlight will help stimulate seed germination and root/stump sprouts.

Clearcutting is the solution to forest types whose seedlings or sprouts require full sunlight. Seeds and buds respond well to the warmed ground. The abundance of light produces excellent growth, some of the fastest we have. Species such as aspen, paper birch and jack pine require full sunlight.

Site Condition

Proposed Start Date: 10/1 /2024

**Total Treatment Acreage Proposed: 278.4**

## Report 4 – Site Conditions

Escanaba Mgt. Unit  
Dan Beaudou : Examiner

Compartment: 37  
Year of Entry: 2025

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions		
		With Condition	Not Available		2H	3L	5E
307	304	0	3	Aspen			3
649	0	0	649	Cedar		642	7
95	93	0	2	Hemlock			2
4	4	0	0	Herbaceous Openland			
105	104	0	1	Lowland Aspen/Balsam Poplar			1
16	16	0	0	Lowland Conifers			0
107	99	0	8	Lowland Deciduous			8
40	40	0	0	Lowland Mixed Forest			
128	128	0	0	Lowland Shrub			
8	8	0	0	Marsh			
340	307	0	33	Mixed Upland Deciduous	17		16
69	69	0	0	Northern Hardwood			
2	2	0	0	Sand, Soil			
68	68	0	0	Upland Conifers			
105	105	0	0	Upland Mixed Forest			0
5	5	0	0	Urban			
2,048	1,352		696	Total Forested Acres	17	642	37
	66%		34%	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	3L: Other wildlife concerns	642	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> High amount of northern white cedar and/or hemlock. Unavailable due to Deer Winter Range Guidelines.							
2	Unavailable	5E: Long-Term Retention	37	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> These are long term retention patches from recent timber sales.							

3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	17	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand along highway M-35 and ditch without current driveway access. Access unknown from adjacent private property.							

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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
1	4110 - Sugar Maple Association	Sawtimber Medium	2.8	84	51-80	N/A	This is a small northern hardwood stand that was thinned February 2022 by the Deer Creek (33-033-15-01) timber sale. Good thinning leaving better quality sugar maple and a minor mix of other species. There is a trace amount of birch, cedar, hemlock and spruce.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>85</td> <td>Log/Pole</td> <td>12</td> <td>84</td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Log/Pole</td> <td>12</td> <td>84</td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	85	Log/Pole	12	84	Red Maple	10	Log/Pole	12	84	Balsam Fir	5	Pole	8																															
Canopy Species	% Cover	Size Class	DBH	Age																																																
Sugar Maple	85	Log/Pole	12	84																																																
Red Maple	10	Log/Pole	12	84																																																
Balsam Fir	5	Pole	8																																																	
2	6229 - Mixed lowland shrub	Nonstocked	3.9			No	Tag alder and willow with scattered mixed species of trees.																																													
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Paper Birch</td> <td>Trace</td> <td></td> <td>Sapling</td> </tr> <tr> <td>Northern White Cedar</td> <td>Low</td> <td></td> <td>Pole</td> </tr> <tr> <td>Black Ash</td> <td>Trace</td> <td></td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Paper Birch		Trace		Sapling	Northern White Cedar	Low		Pole	Black Ash	Trace		Sapling																																		
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Paper Birch	Trace		Sapling																																																	
Northern White Cedar	Low		Pole																																																	
Black Ash	Trace		Sapling																																																	
3	6220 - Alder/willow	Nonstocked	10.3			No	Deer Creek flows north to south through this stand stand created by a couple old beaver dams with floodings.																																													
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Medium</td> <td></td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder		Medium		Tall Shrub																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																	
Tag Alder	Medium		Tall Shrub																																																	
4	42350 - Upland Hemlock	Sawtimber Poor	32.7	115	1-50	N/A	Stand was cut in 2022 by the Deer Creek (33-033-15-01) timber sale. The hemlock was retained, along with some cedar, yellow birch, and a mix of seed trees. Regeneration has really sprung up over the summer. Some ash and maple sprouts have been browsed on. With the amount of retention and regeneration currently in stand, this is a forested stand which should make full canopy in the next couple years if regeneration gets past browsing.																																													
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5	4190 - Mixed Upland Deciduous with Cedar	Sawtimber Well	44.5	75	141-170	N/A	This is a slight upland stand with drainages going to deer creek. Stand for the most part is healthy. The minor quantity of ash is susceptible to EAB. But, to diversify local age class, consider treating this stand during next cycle due to the recent large clearcut areas to adjacent west. This extra time will allow the clearcut's regeneration to grow out of reach of herbivores were increased numbers will be attracted to harvested trees.  Contains buffer to Deer Creek. Other species observed: balsam fir, white spruce, yellow birch.																																													
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6	6120 - Lowland Cedar	Poletimber Well	6.2	131	1-50	N/A	Site gets wetter from north to south; trees get shorter and smaller diameter. Other species observed: balsam fir, black spruce.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
7	42350 - Upland Hemlock	Sawtimber Medium	62.6	130	81-110	N/A	This stand was last treated in 2009 by the Deer Pond Mix (33-022-05-01) timber sale. Canopy is full when log(canopy) and saplings(subcanopy) are both considered. Regeneration is now 20-30' tall in the open areas of the stand. Shaded areas due to higher density of retention have some shade tolerant species like spruce, fir and pine present. Previous YOE 2015 Comments: Last treated on contract 022-05-01 in 2009. Residual BA is too high to get regeneration and all hardwood stump sprout are heavily browsed. However, where stand is more open, red maple stumps have sprouted and some should make it above the deer this year. Other species observed: yellow birch, white spruce, paper birch, white ash.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Hemlock	63	Log	14	130	Blackberry/Raspberry	Low		< 5 feet	Tall Shrub
White Pine	5	XLog	18		Red Maple	Medium		Variable	Sapling
Northern White Cedar	27	Pole	9		White Spruce	Low		< 5 feet	Sapling
Red Maple	5	Log	14		Birch (spp.)	Low		Variable	Sapling
8	4199 - Other Mixed Upland Deciduous	Sapling Poor	46.2	1	1-50	N/A	This stand was treated in January 2022 by the Deer Creek (33-033-15-01) timber sale. Regeneration really sprouted over the summer with minor browsed at this point. Retention contains a trace amount of other species including white pine and hemlock.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Yellow Birch	10	Pole/Log	9	115	White Spruce	Low		5 - 10 feet	Sapling
Hemlock	5	Log	14	115	Balsam Fir	Low		5 - 10 feet	Sapling
Northern White Cedar	10	Log/Pole	10	115					
Green Ash	10	Sapling	1	1					
Balsam Poplar	30	Sapling	1	1					
Red Maple	20	Sapling	1	1					
Quaking Aspen	15	Sapling	1	1					
9	6111 - Lowland Balsam Poplar	Poletimber Well	21.9	31	Immature	N/A	There is slight upland in areas. Mix of aspen and balm with variable upland and lowland conditions. Some conifer seedlings present. Stand was treated during February 1990 by the timber sale 33-036-85-01.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	45	Pole	6	31	White Spruce	Low		10 - 20 feet	Sapling
Balsam Poplar	45	Pole	6	31	Green Ash	Medium		10 - 20 feet	Sapling
Balsam Fir	5	Pole	6						
White Spruce	5	Pole	6						
10	6120 - Lowland Cedar	Sawtimber Well	13.1	141	141-170	N/A	Stand variable with most of stand heavier to cedar and some areas lowland hardwoods overtopping the cedar. Trace amounts of spruce, white pine, balsam fir and hemlock.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Green Ash	5	Pole	8		White Spruce	Low		5 - 10 feet	Sapling
Paper Birch	5	Pole	8						
Red Maple	25	Pole	8						
Northern White Cedar	65	Log	10	141					
11	6119 - Mixed Lowland Deciduous Forest	Sapling Medium	31.3	5	1-50	N/A	Stand treated early 2018 under contract 33-014-15-01 Sloppy Joes timber sale. All merchantable trees were cut except hemlock, some seed trees and retention patches.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Green Ash	25	Sapling	2						
Paper Birch	5	Sapling	1						
Hemlock	10	Log/Pole	10						
Quaking Aspen	10	Sapling	2						
Red Maple	50	Sapling	2	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**12** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 16.3 35 51-80 N/A A mix of upland and lowland throughout this stand. There is also a variability to the species composition with pockets of hardwood types and pockets of cedar/softwood types.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	6		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	25	Pole	5	35	Balsam Fir	Low	10 - 20 feet	Sapling
Northern White Cedar	25	Pole	8	140				
Red Maple	25	Pole	8	35				
Green Ash	10	Pole	8					
White Spruce	10	Pole	5					

**13** 6229 - Mixed lowland shrub Nonstocked 25.4 No Deer creek flows through this stand along with a drainage from the east.

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High		Tall Shrub
Balsam Fir	Low		Pole
Black Ash	Low	Variable	Sapling

**14** 4199 - Other Mixed Upland Deciduous Sapling Medium 8.1 4 1-50 N/A Stand was clearcut in 2019 on Deer Creek (33-033-15-01) timber sale. The hemlock, pine, and cedar were retained. Good regeneration that as it gets taller will start closing in the canopy.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Sapling	1	4	White Spruce	Medium	10 - 20 feet	Sapling
Red Maple	40	Sapling	1	4	Blackberry/Raspberry	High	5 - 10 feet	Tall Shrub
Balsam Poplar	20	Sapling	1	4	Balsam Fir	Medium	10 - 20 feet	Sapling
Hemlock	5	Log	12	115				
Green Ash	25	Sapling	1	4				

**15** 4130 - Aspen Poletimber Well 47.2 32 Immature N/A Stand was treated in 1991 under contract 33-036-85-01. Mostly high ground but some low with tag alder. Some areas heavier to balm. Other species observed: sugar maple, red maple, white ash, ironwood, hemlock.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	15	Pole	6	32	White Spruce	Low	5 - 10 feet	Sapling
Balsam Fir	5	Pole	5		Balsam Fir	Low	5 - 10 feet	Sapling
White Spruce	10	Pole	5		Tag Alder	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	70	Pole	6	32				

**16** 6132 - Mixed Lowland Forest with Cedar Sawtimber Well 5.7 120 81-110 N/A A narrow strip of trees that has a higher composition of cedar.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Log	10		Black Ash	Low	10 - 20 feet	Sapling
White Spruce	5	Log	10		White Spruce	Low	5 - 10 feet	Sapling
Red Maple	15	Log	12					
Green Ash	15	Log	10					
Balsam Poplar	10	Log	14					
Northern White Cedar	50	Log	10	120				





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**17** 6117 - Lowland Deciduous, Mixed Coniferous Sapling Medium 16.3 5 Immature N/A

Stand was treated in 3/2018 by the Sloppy Joes (33-014-15-01) timber sale. Pine, hemlock and 3 retention patches were retained. Stand is filling in with deciduous sprouts and some conifer seedlings.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	1	
Balsam Poplar	30	Sapling	1	5
Black Ash	20	Sapling	1	
Green Ash	20	Sapling	1	5
Northern White Cedar	15	Pole	8	140
Hemlock	5	Log	12	

**18** 4319 - Mixed Upland Forest Sapling Well 78.0 19 Immature N/A

Northern and western portion of stand was treated during fall and winter of 2003-04 by the Pineview Block (33-035-00-01) timber sale. Southern east portion was treated by the Deer Pond Mix (33-022-05-01) timber sale in 2008-09. Mostly upland but some lowland mixed in. Trace amounts of other species including balm, balsam, spruce, quaking aspen and ash.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	10	Log	10	
White Pine	10	Sapling	3	
Red Pine	5	Sapling	3	
White Ash	5	Sapling	2	
Bigtooth Aspen	5	Sapling	4	
Paper Birch	5	Sapling	3	
Hemlock	25	Log	12	120
Red Maple	35	Sapling	3	19

Sub-Canopy Species	Density	Avg. Height	Size
Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Red Maple	Low	10 - 20 feet	Sapling
White Spruce	Low	5 - 10 feet	Sapling
Balsam Poplar	Low	5 - 10 feet	Sapling

YOE 2015 Comments: Blowdown scattered through stand. Red maple and other hardwood stump sprouts are all browsed but where the stand is more open, the stems will make it above the deer this year. In more open areas, regen is more dense and includes balm, red maple, ash, white spruce and white pine. Other species observed: red pine, beech.

**19** 4199 - Other Mixed Upland Deciduous Sapling Medium 85.4 4 1-50 N/A

Stand was clearcut in 2019 by the Deer Creek (33-033-15-01) timber sale. The hemlock, yellow birch, white spruce, and pine were retained. Retention patches have severe windthrow with over half of the trees laying on ground. This area might be inductive to bear denning.

Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	5	Pole/Sap/Log	7	85
Green Ash	10	Sapling	1	4
Red Maple	30	Sapling	1	4
Balsam Poplar	35	Sapling	1	4
Black Ash	10	Sapling	1	
Northern White Cedar	5	Log/Pole	10	115
Yellow Birch	5	Log/Pole	10	85

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	10 - 20 feet	Sapling
White Spruce	Low	< 5 feet	Sapling
Blackberry/Raspberry	High	5 - 10 feet	Tall Shrub
Black Ash	Low	10 - 20 feet	Sapling

**20** 6120 - Lowland Cedar Sawtimber Well 9.0 115 201+ N/A

The majority of this stand is cedar. There is some upland areas in the stand. trace amounts of yellow birch, quaking aspen, balsam and spruce.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Log	10	
Paper Birch	10	Pole	8	
Balsam Fir	5	Pole	7	
Northern White Cedar	80	Log	12	115

Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	Low	10 - 20 feet	Sapling
White Spruce	Low	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
21	6118 - Lowland Deciduous with Cedar	Sapling Poor	8.3	2	Immature	N/A	Stand was clearcut in 2022 by the Deer Creek (33-033-15-01) timber sale. The hemlock, cedar, and spruce were retained. Already good sprouting of the deciduous trees.																																						
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22	4190 - Mixed Upland Deciduous with Cedar	Sapling Well	47.1	5	1-50	N/A	Stand was cut in 2018 by the Sloppy Joes (33-014-15-01) timber sale. Hemlock, cedar, pine and other mixed seed trees were retained. Good regeneration has filled in the canopy over 75%.  Previous YOE 2015 Comments: Mostly poor quality red maple with some old strip cuts harvested in 1976. Cuts strips are about 1 chain wide and the uncut strips are about 2 chains wide. Cut strips are red maple, balm, paper birch, white spruce, balsam fir, hemlock and cedar. Other species observed: yellow birch.																																						
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23	6120 - Lowland Cedar	Sawtimber Poor	41.0	130	1-50	N/A	Stand was treated in March 2018 by the Sloppy Joes (33-014-15-01) timber sale. All merchantable trees were harvested except hemlock, cedar, pine and some seed trees were retained. A quarter to half of the residual cedar is wind thrown to some degree. Ash and maple stump sprouts present. There are a trace of spruce and balsam seedlings.																																						
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24	6120 - Lowland Cedar	Poletimber Well	90.6	122	141-170	N/A	Mostly cedar stand but some areas heavier to ash/maple. Near center of stand is an island of higher ground of cedar. Other species observed: balm, red maple, yellow birch, black spruce, balsam fir.																																						
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25	6220 - Alder/willow	Nonstocked	30.9			No	Alder/willow with some marsh grassy and/or water areas in center of openings. Could be old beaver floodings. Some L0, N0 and open water.																																						



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26	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Medium	13.2	15	Immature	N/A	Stand was treated in October 2006 by the Beaver Floodings (33-035-05-01) timber sale. All merchantable trees were harvested except for pine, elm and some seed trees. Regeneration is filling in the canopy.																																																									
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27	4130 - Aspen	Poletimber Well	37.1	34	Immature	N/A	Stand was treated in 1988 by Weng's Camp Block (33-018-87) timber sale. There is a variable dbh in the stand. Most of the aspen trees are just getting into merchantable size. The spruce and fir have a minor spruce budworm infestation at this point. There is a trace amount of sugar maple, white pine, red pine, bigtooth aspen, hemlock and ash.  YOE 2015 comments: Mostly high ground with some low gound pockets of tag alder and/or ash. Flushed several roughed grouse. Other observed species: hemlock, black ash, green ash.																																																									
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28	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	19.3	140	51-80	N/A	Most of trees are not of merchantable size. There are scattered upland knobs having merchantable size. Trace amounts of aspen, balm, pine, hemlock, tamarack and spruce.																																																									
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29	6229 - Mixed lowland shrub	Nonstocked	7.3			No	Mostly marsh grass in the center with tag alder and willow around the perimeter. A couple of seasonal drainages flow through the stand.																																																									
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30	6118 - Lowland Deciduous with Cedar	Poletimber Well	23.1	45	81-110	N/A	Stand had been cut in the past leaving the cedar. The regeneration is getting in the merchantable size now. Mostly E type with cedar in pockets but some scattered throughout stand. Some blowdown. Other species observed: white pine, balsam fir, white spruce.																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**31** 4190 - Mixed Upland Deciduous with Cedar Poletimber Well 14.7 25 Immature N/A Stand was treated in 1997 by the North Fox Field Block (33-015-94) timber sale. Cedar and hemlock were retained. There is a trace amount of ash and balsam.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	25	Log	10	140
Red Maple	5	Pole	5	
White Spruce	5	Pole	5	
Balsam Poplar	35	Pole	5	25
Quaking Aspen	30	Pole	5	25

Sub-Canopy Species	Density	Avg. Height	Size
Green Ash	Low	10 - 20 feet	Sapling
White Spruce	Low	5 - 10 feet	Sapling

**32** 310 - Herbaceous Openland Nonstocked 1.3 Unspecified No Grass opening filling in with trees.

**33** 6220 - Alder/willow Nonstocked 9.6 No Lowland brush with ash, red maple and spruce around perimeter

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

**34** 4113 - R.Maple, Conifer Sawtimber Well 31.5 85 81-110 N/A Stand had been thinned in 2006 by the Beaver Floodings (33-035-05-01) timber sale. The canopy contains a variable diameter of trees. Regeneration is expanding in the open areas. There is a trace amount of black ash, yellow and paper birch. Consider a shelterwood thinning next inventory cycle.

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	15	Log	12	102
Red Maple	70	Log	10	85
Green Ash	5	Log	10	
Northern White Cedar	10	Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	Low	Variable	Log
White Spruce	Medium	Variable	Sapling
Balsam Poplar	Low	Variable	Sapling
Northern White Cedar	Low	Variable	Pole
Balsam Fir	Medium	Variable	Sapling
White Pine	Low	< 5 feet	Sapling

YOE 2015 Comments: Fair quality red maple saw and poles.. About 1 acre blowdown area in north-central portion of stand Several deer trails and beds. Some spruce/fir regen. Some red maple stump sprouts but are heavily browsed by deer. Some portions are heavier to hemlock and cedar. Other observed species: white spruce, paper birch.

**35** 6112 - Lowland Aspen Sapling Medium 16.3 4 1-50 N/A Stand was clearcut in 2019 by the Deer Creek (33-033-15-01) timber sale. The hemlock, cedar, and some seed trees were retained. There was also a dense patch of cedar retained. The stand is regenerating to a mix of species.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	20	Sapling	1	
Northern White Cedar	10	Log/Pole	12	115
Yellow Birch	5	Log	12	90
Black Ash	20	Sapling	1	4
Balsam Poplar	20	Sapling	1	4
Green Ash	10	Sapling	1	4
Red Maple	15	Sapling	1	4

Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	Low	10 - 20 feet	Sapling
White Spruce	Low	10 - 20 feet	Sapling
Balsam Fir	Low	10 - 20 feet	Sapling

**36** 6220 - Alder/willow Nonstocked 2.3 No Lowland brush stand with some scattered trees.

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High		Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
<b>37</b>	6120 - Lowland Cedar	Poletimber Poor	32.2	132	1-50	N/A	Large swamp area of tag alder, holly and other lowland brush. There are areas of low density cedar, tamarack, ash with a slight upland ridge of mixed species in the south central portion of the stand.																																																												
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<b>38</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	47.4	54	51-80	N/A	This stand has spruce budworm infestation with mortality present. The aspen and balsam are at maturity with other species dying. There is trace amounts of cedar, maple, yellow birch, hemlock, red and white pine.  YOE 2013 Comments: Mostly upland but some low. Area west and south of N Fox Rd cut in 1980; area east and north of N Fox Rd cut in 1969. Other species observed: white pine, cedar, red maple.																																																												
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<b>39</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	32.4	3	Immature	N/A	Stand treated in March of 2018 by the Sloppy Joes (33-014-15-01) timber sale. Cedar and a retention patch containing mostly ash was retained. Overall the stand is filling in to an almost fully stocked stand already. There is a trace amount of cedar, spruce and other mixed seed trees.  YOE 2015 Comments: Stand type variable--mostly A/P in the northern and eastern portions while ash/maple in the southern and western portions. Mostly high ground but some lower pockets and surface drains during wet periods. Other species observed: white spruce, paper birch, tamarack, cedar.																																																												
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<b>40</b>	4130 - Aspen	Poletimber Well	11.9	35	51-80	N/A	Stand was treated in 1987 by the North Fox Field Block (33-046-85-01) timber sale. All trees were harvested except for hemlock and a retention patch in the middle of the stand. Variable diameters with the stand being comprised of both pole and sapling sized trees.  YOEMostly QA on higher ground and balsam on lower ground. Pockets of S/F in southern half and pocket of cedar near center of stand. Other species observed: cedar, white spruce, balsam fir.																																																												
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41	4110 - Sugar Maple Association	Sawtimber Well	17.3	85	111-140	N/A	Last treated on contract 032-00-01 Pete's Shoal Block in 2002 and before that a sale in 1977. Prioritize managing this stand for northern hardwoods due to the low amount within this compartment. The south east portion of the stand was delineated out because of wetter conditions and the trees are dying out. Trace amounts of balsam, cedar and spruce.  YOE 2015 Comments: Generally good quality logs and poles. Some dead and down hemlock and ash--mostly blowdowns. No hardwood regen. Some pockets of all dead sugar maple. Other species observed: yellow birch, paper birch.																																																								
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42	6112 - Lowland Aspen	Poletimber Well	13.8	16	Immature	N/A	Stand was last treated in 9/2006 by the Beaver Floodings (33-035-05-01) timber sale. The pine, elm, and some seed trees were retained. Canopy is filling in and probably close to 80% now. YOE 2015 Comments: Where residual trees are scattered from last treatment, regeneration of balm and other species is good, but where residual is denser, regeneration is poor or non-existent. Some residuals are blown-over or have the top broken and are now stubs. A marsh area exists in the central portion of the stand. Other species observed: ironwood, yellow birch, hemlock.																																																								
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43	6120 - Lowland Cedar	Sawtimber Well	59.7	120	171-200	N/A	Majority of this stand is good quality cedar with other species mixed in.  YOE 2015 Comments: Decent quality cedar stand. Some blowdown. Old leave strips in eastern portion--cut strips treated in 1978. Other species observed: black ash, balsam fir, yellow birch.																																																								
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44	4199 - Other Mixed Upland Deciduous	Poletimber Well	25.0	55	81-110	N/A	Portions of the stand were treated in January 1988 by the North Fox Field Block (33-046-85-01) timber sale. There is variable diameters. SBW and EAB are presence. Hemlock and some other seed trees were retained during the last treatment. There is a trace amounts of white pine, hemlock, cedar and yellow birch.  YOE 2015 Comments: Northern portion mostly younger balm and southern portion mostly older green ash/red maple/quaking aspen. Pockets of cedar. Some blowdown. Other species observed: white spruce.																																																								
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45	4130 - Aspen	Sapling Medium	54.3	13	Immature	N/A	This stand was last treated in December 2008 by the North Fox Road Mix (33-026-05-01) timber sale. Areas of this stand served as gravel pits for local road systems. Now spruce, balm and aspen are slowly filling in this area.  YOE 2015 Comments: Good regeneration of aspen/balm but spotty in some places. Gravel pit near center of stand. Other species observed: cedar, green ash.																																																								
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46	710 - Sand, Soil	Nonstocked	1.7			No	Gravel pit area developed for use on the North Fox and surrounding Department road system. Areas where gravel was first extracted have seedling presence.																																																																	
47	6229 - Mixed lowland shrub	Nonstocked	13.0			No	A large marshy area once flooded by beavers. A tributary to Deer Creek flows N-S through stand.																																																																	
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48	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Medium	17.3	47	51-80	N/A	Stand has the presence of spruce budworm (SBW) with mortality starting in the balsam and spruce. A lower percentage of ash that will be affected by EAB. Good mix of species being of variable sizes. Treatment will target SBW and EAB species along with other mature species.																																																																	
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49	4130 - Aspen	Poletimber Well	22.4	33	Immature	N/A	Stand was treated in January 1990 by the Mallman Block (33-008-89-01) timber sale. Good aspen dominated regeneration with a trace amount of ash, balsam, cedar, cherry, maple and spruce. Mix of pole and sapling size trees.																																																																	
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50	4110 - Sugar Maple Association	Sawtimber Well	17.8	90	111-140	N/A	Stand was last thinned in 12/2008 by the North Fox Road Mix (33-026-05-01) timber sale. Generally good quality sugar maple sawlogs and poles. There is a trace amount of ash, birch, balsam and spruce. Prioritize managing this stand for northern hardwoods due to the low prevalence within this compartment.																																																																	
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51	4139 - Aspen, Mixed Deciduous	Poletimber Well	22.1	36	1-50	N/A	Stand was treated in 1987 by the North Fox Pit Block (33-049-85-01) timber sale. All merchantable trees were cut except cedar and hemlock. Stand has regenerated well.  YOE 2015 Comments: Young aspen pole stand, but also some beech, sugar maple and white ash regen, too. Other observed species: white spruce, hemlock.																																																
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52	6120 - Lowland Cedar	Poletimber Poor	10.4	140	1-50	N/A	Low density cedar, spruce, ash and some other species.  YOE 2015 Comments: Mostly holly and tag alder but some pockets of cedar and balm																																																
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53	4139 - Aspen, Mixed Deciduous	Sawtimber Well	47.8	48	81-110	N/A	This is a mature aspen stand that has ash and balm down the middle in a slight lowland area. Woodpecker activity on some of the ash indicating the presence of Emerald Ash Borer. The balsam and spruce have defoliation from the Spruce Budworm. Mortality setting in with all species. Trace amounts of cherry and maple.  YOE 2015 Comments: Good quality aspen stand. Other species observed: red maple.																																																
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54	6111 - Lowland Balsam Poplar	Poletimber Well	27.8	44	81-110	N/A	Stand has a higher percentage of ash with signs of Emerald Ash Borer woodpecker activity in the northern portion of the stand. The aspen and balsam poplar are mature with some mortality.  YOE 2015 Comments: Strip cuts from 1978 treatment. Found a small deer enclosure near N Fox Road in SW corner of north strip which had 3 cedar seedlings 2-3 feet tall. Some of the strips were burned after the 1978 treatment to try to encourage cedar regeneration. Other species observed: yellow birch, quaking aspen, balsam fir, cedar, white spruce.																																																
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55	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	6.1	45	1-50	N/A	A lower density stand with higher concentration of ash that is merchantable. The Emerald Ash Borer is in the area if not the stand. The spruce has defoliation typical of Spruce Budworm. Treat this stand due to forest health reasons. Balsam Poplar is mature with some starting to die out. Mostly a wet swale.  YOE 2015 Comments: Trees are small diameter. Other species observed: balsam fir, black ash, yellow birch.																																																
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56	6111 - Lowland Balsam Poplar	Sapling Well	10.8	16	Immature	N/A	Last treated on contract Beaver Floodings (33-035-05-01) in 2006. Regenerating well. Other species observed: white pine.																																																
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57	42390 - Mixed Non-Pine Upland Conifers	Sapling Medium	22.3	13	1-50	N/A	Last treated on contract 026-05-01 in 2009. Balsam fire and spruce were left with 3 sticks of less in them creating a variable age in spruce and balsam. Spruce Budworm is in the stand recommending forest health harvest.																																																
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58	6120 - Lowland Cedar	Poletimber Well	17.3	127	81-110	N/A	YOE 2015 Comments: Most of stand pretty wet and poor site quality but some is better drained with very good growth. Creek flows north to south. Other species observed: red maple, white spruce.																																																
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59	6229 - Mixed lowland shrub	Nonstocked	19.8			No	A small tributary to Deer Creek flows N-S through stand. Looks like this area is probably an old beaver flooding.																																																
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<b>60</b>	6120 - Lowland Cedar	Poletimber Poor	64.8	141	1-50	N/A	A wet stand with short, small diameter trees. Dense areas of tag alder and holly. Trace amounts of balsam fir, black spuce and tamarack.																																																				
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<b>61</b>	429 - Mixed Upland Conifers	Poletimber Well	8.5	34	Immature	N/A	Stand was treated in 1988 by Weng's Camp Block (33-018-87) timber sale. There is a variable dbh in the stand. Most of the aspen trees are just getting into merchantable size. The spruce and fir have spruce budworm defoliation at this point. There is a trace amount of sugar maple, white pine, red pine, bigtooth aspen, hemlock and ash. YOE 2015 comments: Mostly high ground with some low gound pockets of tag alder and/or ash. Flushed several roughed grouse. Other observed species: hemlock, black ash, green ash.																																																				
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<b>63</b>	6233 - Wet Meadow	Nonstocked	8.4		Unspecified	No	Walking up through the middle of the stand there was no sign of the reported heron rookery. The adjacent stands 53 and 68 were also visible. This stand is mostly open with marsh grass and some ash trees and areas with tag alder and willow along perimeter. This is an old beaver flooding.																																																				
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<b>64</b>	429 - Mixed Upland Conifers	Sapling Medium	19.8	20	Immature	N/A	Stand was treated in 11/2001 by the Noisy Highway (33-042-00-01) timber sale. Some areas the regeneration is good while other areas more open. There is an eagle nest in large white pine north of grass opening. No eagles observed on this day. There is a strip along the north line containing hemlock and larger white pine.  YOE 2015 Comments: Stand variable in density--some medium density some more open. Eagle nest in northern portion of stand. Other species observed: white pine, hemlock, cedar.																																																				
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<b>65</b>	6120 - Lowland Cedar	Poletimber Medium	44.9	141	111-140	N/A	Poor wet site, poorly growing trees.																																																							
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<b>66</b>	4134 - Aspen, Spruce/Fir	Sapling Well	13.3	20	Immature	N/A	Stand was treated in December of 2001 by the Noisy Highway (33-042-00-01) timber sale. Good regeneration growing with some open areas slower to fill in.																																																							
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<b>67</b>	3102 - Grass	Nonstocked	2.7		Unspecified	No	White pine seedlings up to 8' tall are starting to fill in opening. Presence of spotted knapweed, brambles and grass.  YOE 2015 Comments: Lots of red raspberries and some black berries.																																																							
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<b>68</b>	6112 - Lowland Aspen	Poletimber Well	14.6	52	81-110	N/A	Ash is variable in dbh from 1-16". Aspen, balsam fir and spruce are on upland portions of the stand. The majority of the cedar is in the southern portion of the stand. It is poor quality with minimal winter cover. Less than 40 cords of cedar would be harvested. There are large, dense stands of cedar adjacent to the south and east. Conifer in rest of the stand consists of balsam fir and spruce with sbw defoliation on some trees. A drainage cuts across the stand in the middle from northwest to southeast.  YOE 2015 Comments: Mostly low land but some high. Other species observed: yellow birch.																																																							
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<b>69</b>	6120 - Lowland Cedar	Sawtimber Medium	51.4	130	1-50	N/A	This stand was cut in 2020 on the New Camper (33-013-15-01) timber sale. The cedar residual is significant with retention patches and leaving the cedar. The ash greater than 6 inches was cut leaving a few of the ash put into the overstory call.																																																							
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<b>70</b>	4319 - Mixed Upland Forest	Sawtimber Well	21.9	130	141-170	N/A	A thinning occurred but not sure of the time frame. There is large green ash with woodpecker activity. There is a small tributary that flows into deer creek from the northeast. The east side has denser cedar in the sub-canopy.																																																					
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<p>YOE 2015 Comments: Generally poor quality red maple log stand. Lots of dead and down---mostly BF and spruce. Deer creek flows n to s through stand. Other observed species: white ash, white spruce, balsam fir, white pine, balm, yellow birch.</p>																																																												
<b>71</b>	6120 - Lowland Cedar	Sawtimber Medium	10.9	138	111-140	N/A	Quite a few quaking aspen and cedar windthrows. Most ash seedlings all browsed and less than 3' tall. Other species observed: balm.																																																					
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<b>72</b>	4319 - Mixed Upland Forest	Sawtimber Medium	5.0	95	51-80	N/A	Stand was thinned in 2020 by the New Camper (33-013-15-01) timber sale. Some regeneration of red maple stumps protected by brush piles.																																																					
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<b>73</b>	6120 - Lowland Cedar	Poletimber Well	44.1	130	81-110	N/A	Wet site, poor growth on trees--many leaning and sweeping trees. Drainage stream along southeastern edge. Other observed species: paper birch, yellow birch, white spruce.																																																					
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<b>74</b>	42360 - Upland Cedar	Sawtimber Well	11.9	141	111-140	N/A	A mix of upland with lowland areas. There is a creek flowing through the center of the stand. Large trees with the majority being cedar.																																																			
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<b>75</b>	6120 - Lowland Cedar	Poletimber Well	38.2	130	Unspecified	N/A	Wet site with poor growth. Many leaning trees with sweep but on better site trees are straight. Other observed species: white pine.																																																			
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<b>76</b>	4199 - Other Mixed Upland Deciduous	Poletimber Medium	3.1	52	51-80	N/A	Small narrow stand with few trees along west side of M-35 R-O-W--no landing areas.																																																			
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<b>77</b>	122 - Road/Parking Lot	Nonstocked	4.6		Unspecified	No	M-35 asphalt highway and right of way.																																																			
<b>78</b>	4190 - Mixed Upland Deciduous with Cedar	Poletimber Medium	13.4	140	1-50	N/A	Strip of forest along east side of M-35 R-O-W. A strip was cut about 40+ years ago. Cedar along the road are dying.																																																			
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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>79</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	18.1	34	Immature	N/A	Stand was treated in 1988 by the Olson Creek (33-050-85) timber sale. North side of road is mainly aspen/balm type with south side of road more balm and tag alder
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Canopy Species	% Cover	Size Class	DBH	Age
Green Ash	10	Sapling	4	
Balsam Fir	5	Pole	6	
Northern White Cedar	5	Pole	8	
Balsam Poplar	25	Pole/Sapling	6	34
Quaking Aspen	55	Pole	6	34

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	< 5 feet	Sapling
White Spruce	Medium	< 5 feet	Sapling
Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
Tag Alder	Low	5 - 10 feet	Tall Shrub

<b>80</b>	6120 - Lowland Cedar	Poletimber Well	48.1	124	1-50	N/A	Generally poor growing site with most trees 2-3 sticks high. Mostly cedar type but more tamarack in southern portion of stand. Other observed species: paper birch.
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Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	90	Pole	8	124
Tamarack	5	Pole	8	
Black Spruce	5	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	10 - 20 feet	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	Low	10 - 20 feet	Sapling

<b>81</b>	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	15.0	140	51-80	N/A	Olson Creek flows west to east through stand. Stand is variable portions heavier to lowland hardwoods but some area more cedar. Scattered blowdown in west portion but a large patch of blowdown in eastern portion. High ground in north and in the southeast area. Other observed species: white spruce, balsam fir.
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Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	5	Log	15	
Balsam Poplar	10	Pole	8	53
Northern White Cedar	50	Pole	8	140
Hemlock	5	Log	12	
Black Ash	5	Pole	8	
Paper Birch	5	Log	10	
Green Ash	20	Pole	8	84

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	10 - 20 feet	Sapling
Tamarack	Low	5 - 10 feet	Tall Shrub

<b>82</b>	6120 - Lowland Cedar	Sawtimber Well	17.7	120	141-170	N/A	Mostly lowland but some upland. Some blowdown. Includes old strip cuts from 1966 and they are mostly balm/PB/Fb/Fs.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole	9	
Quaking Aspen	5	Log	12	
Balsam Fir	5	Pole	8	
White Spruce	5	Pole	9	
Northern White Cedar	80	Log	12	120

<b>83</b>	6120 - Lowland Cedar	Sawtimber Well	18.1	144	111-140	N/A	Decent growing site for cedar. Low E-W ridge in eastern portion of stand with mostly paper birch. Blowdown area in NE portion of stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	5	Log	12	
Northern White Cedar	75	Log	10	144
Paper Birch	10	Pole	8	
Balsam Fir	5	Pole	7	
Green Ash	5	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	< 5 feet	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	Low	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**84**      6120 - Lowland Cedar      Poletimber Well      19.6      125      81-110      N/A      Wet site. Poor site for tree growth. Paper birch dying out in eastern part of stand. Other observed species: yellow birch.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	8		White Spruce	Low	5 - 10 feet	Sapling
White Spruce	5	Log	12		Black Ash	Low	10 - 20 feet	Sapling
Black Ash	10	Pole	6		Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	5	Pole	6		Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	65	Pole	8	125				
Green Ash	5	Pole	8					
Balsam Fir	5	Pole	8					

**85**      4199 - Other Mixed Upland Deciduous      Poletimber Well      4.7      54      81-110      N/A      Mixed stand: mostly high ground but some low scattered with stand; red maple is mostly throughout the stand but some portions are more balm and/or green/white ash. Pockets of cedar. Small creek at southern border. Drainage flows from stand 29 through this stand to Deer Creek. Most of this stand is a buffer. Other observed species: balsam fir, hemlock, yellow birch, white spruce, quaking aspen, ironwood, beech, white pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	4	Pole	6	80	White Spruce	Low	< 5 feet	Sapling
Balsam Poplar	30	Pole	9	50	Black Ash	Low	10 - 20 feet	Sapling
Green Ash	20	Log	10	53	Balsam Fir	Low	10 - 20 feet	Sapling
Paper Birch	5	Pole	10					
Red Maple	34	Pole	10	54				
Northern White Cedar	7	Pole	10					

**86**      6113 - Lowland Maple      Sawtimber Poor      8.2      85      81-110      N/A      Stand was last treated in 2002 by Pete's Shoal Block (33-032-00-01) timber sale. This stand was split from larger stand 41 due to lower and wetter conditions causing mortality. YOE 2015 Comments including adjacent stand 41: Generally good quality logs and poles. Some dead and down hemlock and ash--mostly blowdowns. No hardwood regen. Some pockets of all dead sugar maple. Other species observed: yellow birch, paper birch.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	45	Log	10	85	Balsam Fir	Low	Variable	Sapling
Green Ash	10	Log	10		Ironwood	Low	Variable	Sapling
Sugar Maple	30	Log	14	85	White Spruce	Low	Variable	Sapling
Basswood	10	Log	12					
White Spruce	5	Pole	8					