



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33032

Entry Year 2024

Acreage: 1,349

County Menominee

Management Area: Green Bay Lake Plain

Stand Examiner: Dan Racine

Legal Description:

T37N R25W, Sections 01, 11 and 12; T38N R25W, Section 36

Identified Planning Goals:

This compartment is part of the Green Bay Lake Plain Management Area and is located about 5 miles south of Bark River-Harris, Michigan near the Menominee-Delta County lines. It is a mixture of lowland and upland types. Lowland types are about 61 % of the compartment and include mostly cedar or lowland brush with some mixed lowland conifer forest types. Upland types are about 39% of the compartment and include mostly northern hardwoods and aspen timber types with some conifer types. There are no lakes within the compartment. Depas Creek flows from north to south through the compartment.

In several areas cedar regeneration was observed in the compartment.

The northern hardwoods treated within this compartment are designed to improve the stand quality and create opportunities for regeneration within the canopy gaps. The treatments within the mixed upland deciduous cover types are designed to regenerate the stands through final harvest treatments. The treatments within the cedar stands are comprised of tamarack and spruce component and the area shows good signs for cedar regeneration. Stands within compartment 78 and 79 will be treated within this compartment due to the proximity of the stands. A current MWR research project is a seed tree harvest within this compartment and the regeneration is being monitored by the research project staff.

Soil and topography:

Topography is mostly level due to the extent of lowland with some upland areas that are gently rolling. The major soil series are primarily Lupton-Tawas for the lowlands with Onaway for the uplands.

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

The compartment is part of a mostly contiguous block of state ownership to the south with a few private in-holdings. Private and tribal ownership surrounds the compartment to the west, north and east. Most private ownership is recreational for seasonal hunting, recreation and farming.

Unique Natural Features:

The Depas Creek flows north to southwest through the northern portion of the compartment.

Archeological, Historical, and Cultural Features:

No known archeological sites exist in the compartment. An active tribal cemetery exists in the northern portion of section 36 and a rifle range on tribal ownership is used in the southwestern portion of section 36 at the end of county road Casino 37 Lane.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

This compartment contains Depas Creek. A 100' buffer is recommended for this waterbody and any unnamed tributaries; buffers are recommended to protect these areas in accordance with BMPs.

Wildlife Habitat Considerations:

Compartment 32 is part of the Green Bay Lake Plain Management Area. Many stands in this management area demonstrate a natural propensity to grow white pine and balsam fir, species which are found in the understory of many aspen and maple stands. These mesic conifer species will be encouraged where appropriate. Cedar and hemlock provide important wildlife habitat in this management area, but regeneration of both species has been problematic. Management will be aimed at maintaining these stands because they are of modest age. However, some well-planned experimental treatments may be undertaken. Corridors of mature forest will be maintained along some water courses for wildlife that mature forest conditions. Featured wildlife species include white-tailed deer, wild turkey, wood duck and Blackburnian warbler.

Openings: There are a few openings in the northern portion of this compartment will be maintained as openings. In addition, apple trees already located in these openings will be treated, along with the surrounding trees, to enhance the soft mast resource.

Lowland Swamp Conifer: Three lowland conifer stands have been nominated for final harvest. Due to the high value of these types for wildlife and the difficulty in reliably regenerating these stands to a similar species composition, specifically the cedar component, these stands and issues will be further reviewed prior to a treatment being agreed upon.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel and medium-textured glacial till. The glacial drift thickness varies between 10 and 100 feet. The Ordovician Trenton Formation underlies the glacial drift. The Trenton is quarried for stone west of Escanaba. This area has not been leased previously. A gravel pit is located less than one-half mile to the north and potential appears to be good on the upland Drumlins. No economic oil and gas production has been found in the UP.

Vehicle Access:

Access into the compartment is from the north via gravel county roads Casino 37 Lane and a Delta-Menominee County Road on the county line. The southern portion is accessed through private ownership from Depas 34.75 Lane.

Survey Needs:

The existing corners should be adequate. Private line work is needed for the treatments within this compartment.

Recreational Facilities and Opportunities:

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

Fire Protection:

Access is from the county roads into the northern portion of the compartment but the woods roads in the compartment are poorly maintained and in poor shape. ATV's or four-wheel drive vehicles are needed to enter the majority of the compartment during non-frozen times of the year. If a fire were to enter the compartment, access would be poor. Two private cabin/structures exist north of Depas Creek in section 01. The timber types in the area are generally low risk for fire hazard. Some of the interior more remote areas may present a greater fire hazard.

Additional Compartment Information:

The following reports from the Inventory are attached:

- Total Acres by Cover Type and Age Class
- Proposed Treatment Summary
- Proposed Treatments – No Limiting Factors
- Proposed Treatments – With Limiting Factors
- Stand Details (Forested and Non-forested)
- Dedicated and Proposed Special Conservation Areas

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

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

The following reports from the Inventory are attached:

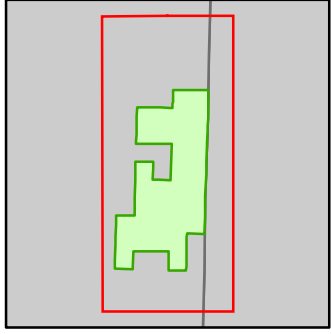
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

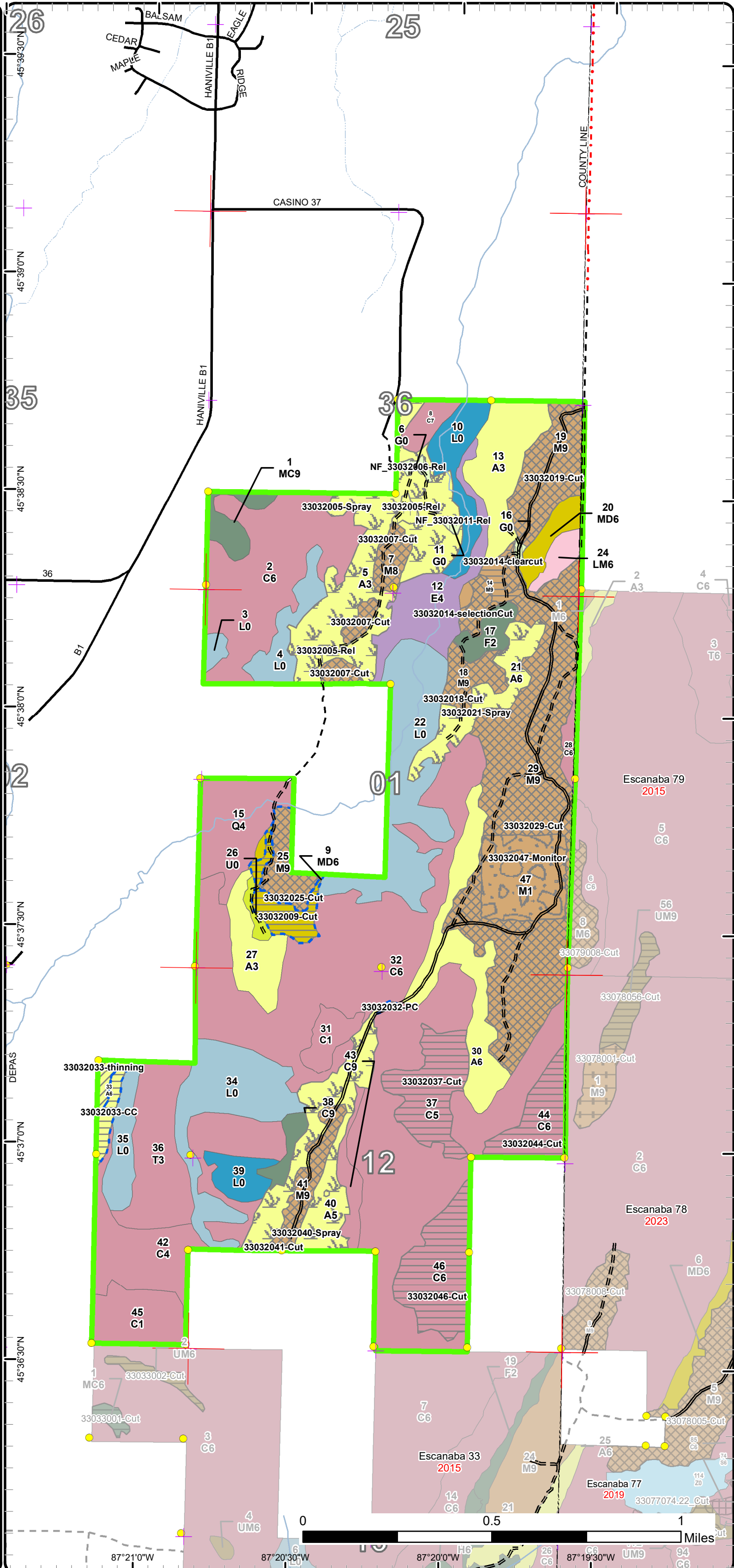
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 32
 T37N-R25W, Sec. 01, 11, 12
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Green Bay Lake Plain
 YOE: 2024
 Acres: 1349.4 GIS Calculated
 Examiner: Dan Racine
 Map Revised: 6/27/2022
 Map Phase: Web-Post

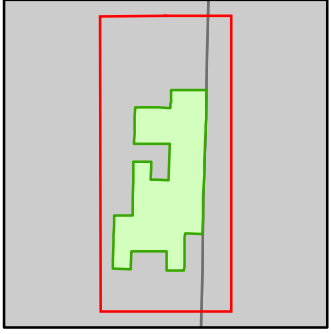


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Compartment Boundary
- Treatments with Site Conditions
- Pesticide
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland

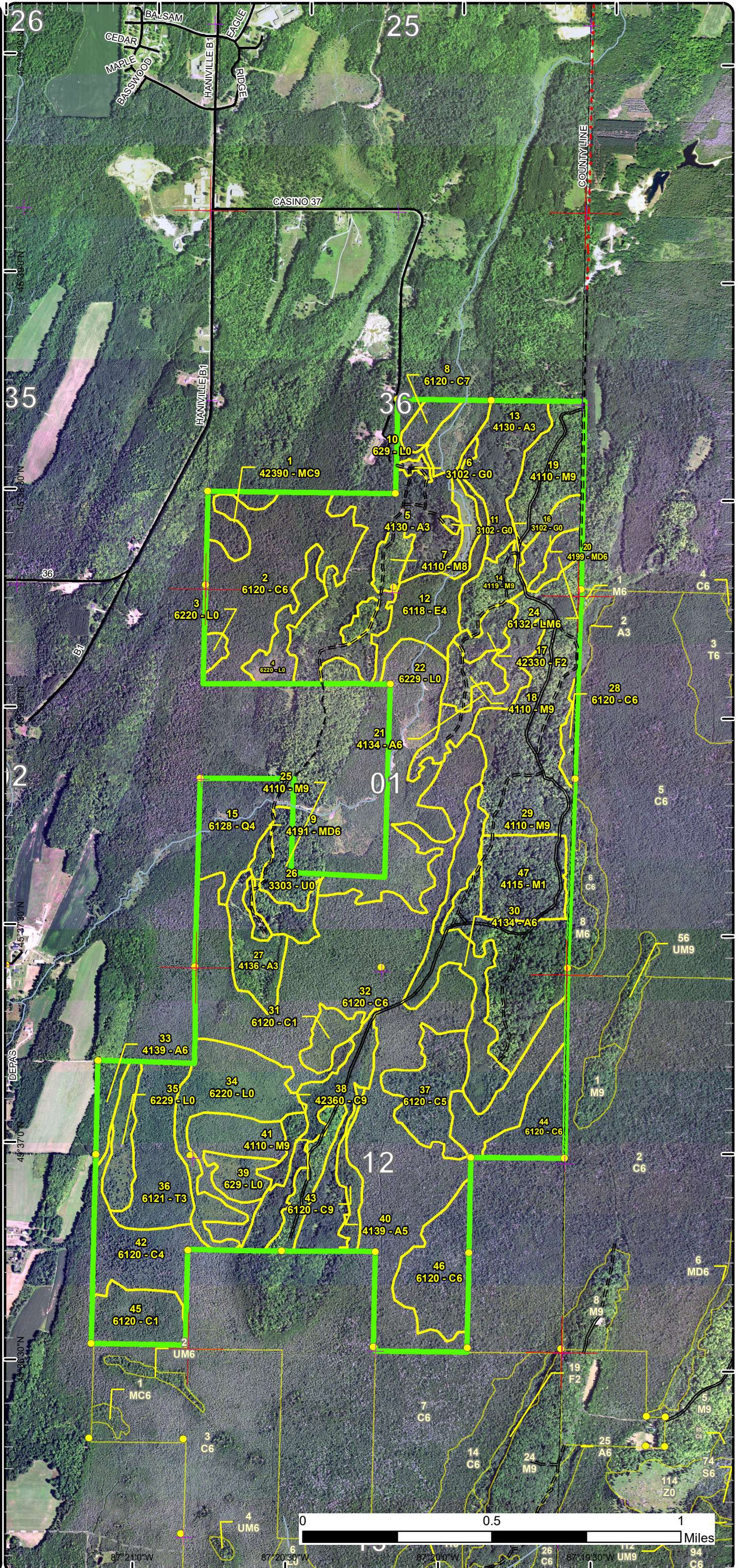


Stand Boundary Map

Compartment: 32
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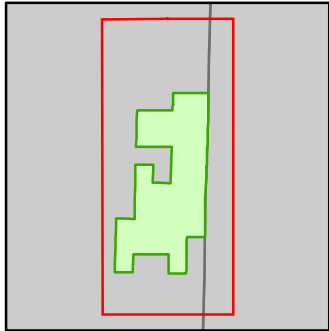


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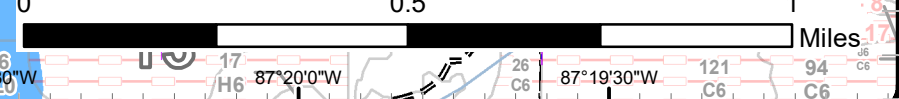
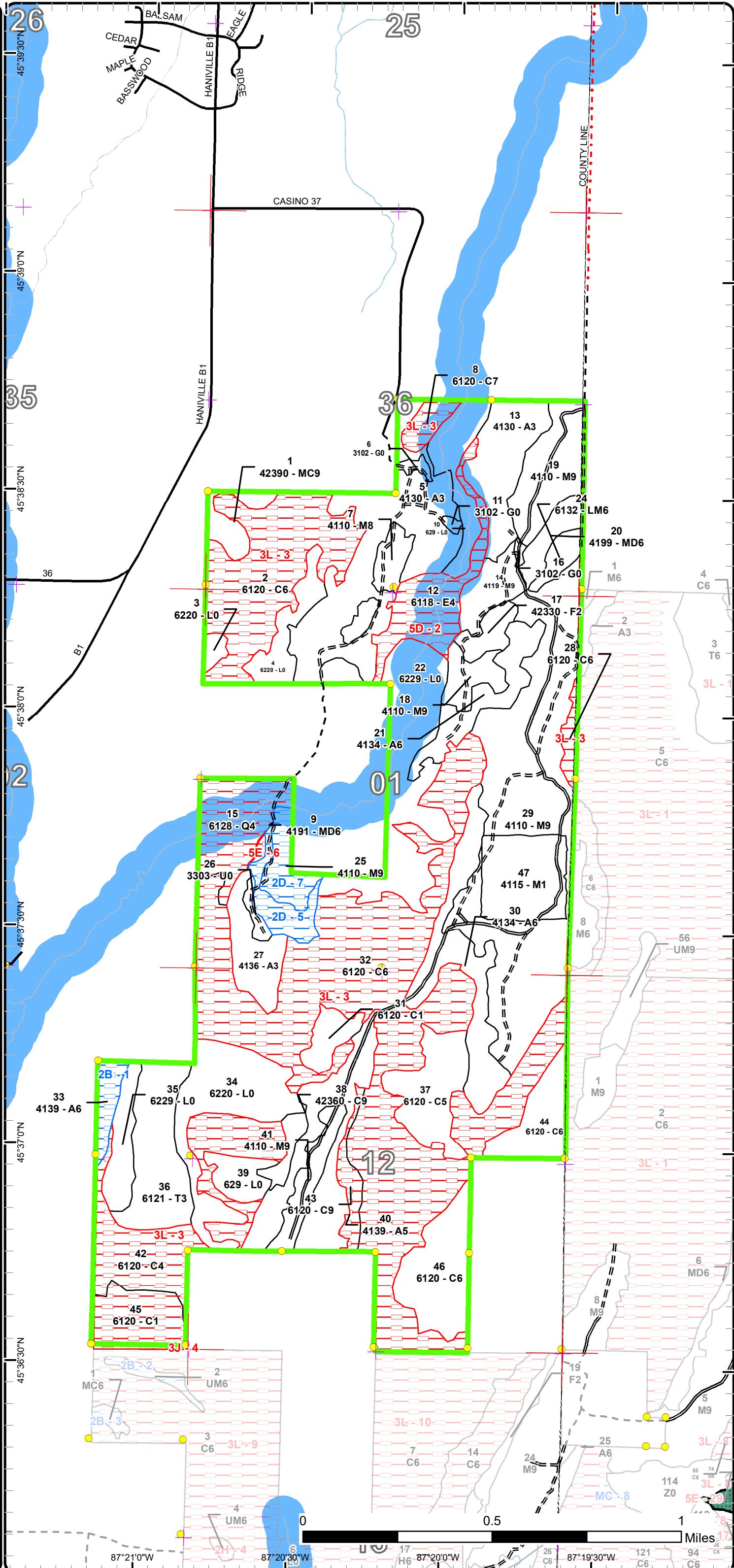


Special Conservation Areas

Compartment: 32
 T37N-R25W, Sec. 01, 11, 12
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Green Bay Lake Plain
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- County - Gravel Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Compartment Boundary
- Available w/ Constraints
- 2D: Portable Bridge Needed (Dept. bridge will be adequate)
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Habitat Corridor



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	19	124	83	0	0	0	9	0	0	0	0	0	0	0	0	0	235
Cedar	0	0	0	0	0	0	0	0	0	73	61	315	6	67	12	0	0	0	532
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Conifers	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0	0	0	33
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	30
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	7
Lowland Shrub	167	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	167
Mixed Upland Deciduous	0	0	0	0	0	10	13	0	0	0	0	0	0	0	0	0	0	0	23
Northern Hardwood	0	0	32	0	0	0	0	16	0	81	133	0	0	0	0	0	0	0	262
Tamarack	0	0	0	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	38
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	10
Upland Spruce/Fir	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Total	174	0	59	124	83	48	46	16	9	154	194	345	6	74	22	0	0	0	1352



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 32

Total Compartment Acres: 1,349

Commercial Harvest - 299
 Harvests with Site Condition - 34
 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	6	0	0	0	0	3	0	0	0	9
Cedar	84	0	0	0	0	0	0	0	0	84
Mixed Upland Deciduous	12	0	0	0	0	0	0	0	0	12
Northern Hardwood	4	224	0	0	0	0	0	0	0	229
Total	106	224	0	0	0	3	0	0	0	333

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	333	0	0	0	0	134	32	0	6	504
Next Step	0	0	0	0	0	0	464	0	0	464
Total	333	0	0	0	0	134	495	0	6	968



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:

5	33032005-Spray	69.4	4130 - Aspen	Sapling Well	21	Immature	Pesticide	Hand Application	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Spray- Spray to treat the phragmites in the low areas. <u>Specs:</u> <u>Next Step</u> Monitoring, Herbicide Use <u>Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											
7	33032007-Cut	15.5	4110 - Sugar Maple Association	Sawtimber Medium	65	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Single tree Selection: Follow the in-stand retention guidelines for northern hardwood selection. Follow the complete marker guidelines. <u>Specs:</u> Retain approximately 60 to 80 basal area throughout, favor to leave minor component species. Remove all ash due to the presence of Emerald Ash Borer. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Regeneration mix of the northern hardwood species present. <u>Other Comment:</u> This harvest will open up the stand to try and obtain regeneration in canopy gaps of the northern hardwoods. The harvest will improve the existing stand quality. Leave some beech where possible in hardwood stands being harvested <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											
9	33032009-Cut	12.1	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	51	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention: Cut all trees. Leave retention along the western boundary. Difficult boundary transitions between stand 25 and stand 26. The western boundary along stand 25 is where the cedar starts to become heavier. <u>Specs:</u> The retention is approximate and may be adjusted at the time of sale prep. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Acceptable regeneration is aspen, mixed conifer and mixed upland hardwood species. Ash is acceptable. <u>Other Comment:</u> Limited factor due to access across Depas Creek and through private property. Likely a portable bridge across the creek is the best option. This harvest will regenerate a mix of upland deciduous and conifer species and salvage ash prior to Emerald ash borer die off. The overall harvest aids in age class distribution of the mixed upland timber resource. WLD Comments: This stand is in conditional range and has a canopy composition of 5% cedar. The biologist and forester identified a retention area to be excluded from harvest. The remainder of the stand will be treated and some cedar will be harvested <u>Site Condition</u> Portable Bridge Needed <u>Proposed Start Date:</u> 10/1 /2023</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
14 33032014-clearcut	4.4	4119 - Mixed Northern Hardwoods	Sawtimber Well	80	81-110	Harvest	Clearcut	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Clearcut: Cut all trees except leave any hemlock or cedar found. Leave a few yellow birch found within the clearcut portion.</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> Mix of the northern hardwood species present.</p> <p><u>Regen:</u></p> <p><u>Other</u> The stand is separated into two treatments. The stand 14 selection and stand 14 clearcut. Retain the area of hemlock to the west.</p> <p><u>Comment:</u> This harvest will salvage the ash from Emerald ash borer.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
14 33032014-selectionCut	8.4	4119 - Mixed Northern Hardwoods	Sawtimber Well	80	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Single tree selection: Harvest all the merchantable spruce and balsam fir. Follow the in stand retention guidance for northern hardwood</p> <p><u>Specs:</u> selection harvest and follow the complete marker guidance. Retain approximately 70 to 80 basal area within the selection portion of the stand. Favor to leave some yellow birch.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of the northern hardwood species present.</p> <p><u>Regen:</u></p> <p><u>Other</u> The stand is separated into two treatments. The stand 14 selection and stand 14 clearcut. Retain the area of hemlock to the west.</p> <p><u>Comment:</u> Leave beech where possible in the hardwood stands.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
18 33032018-Cut	11.1	4110 - Sugar Maple Association	Sawtimber Well	85	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Single tree selection: Harvest this stand retaining approximately 70 BA throughout the stand creating some canopy gaps. Follow the in</p> <p><u>Specs:</u> stand retention guidance for selection harvest and the complete marker guidance.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of northern hardwood species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Currently gates at the end of the County Line road for access.</p> <p><u>Comment:</u> This harvest will improve the existing stand quality and attempt to obtain regeneration in the canopy gaps. Leave some beech where possible in hardwood stands being harvested</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</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
19 33032019-Cut	29.3	4110 - Sugar Maple Association	Sawtimber Well	80	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selection Harvest: Retain approximately 70 BA and take out all ash, most of the beech except what appears to be healthy and BBD free wildlife trees. Leave hemlock and favor to leave yellow birch if found here. Follow the in stand retention for guidance for selection harvest and complete marker guidance.</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> Acceptable regeneration of any northern hardwood species mix.</p> <p><u>Other</u> The current access is through gates at the end of the County Line road.</p> <p><u>Comment:</u> The harvest will improve the existing stand guidance and address forest health issues. Leave some beech where possible in hardwood stands being harvested</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
21 33032021-Spray	21.2	4134 - Aspen, Spruce/Fir	Poetimber Well	29	Immature	Pesticide	Hand Application	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Phragmites was found in several small pockets.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Invasive Species</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other</u> Pockets are located in the southern half of the stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
25 33032025-Cut	13.0	4110 - Sugar Maple Association	Sawtimber Well	85	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selection: Retain approximately 80 basal area, creating some gaps with canopy removal. Follow this in stand retention guidance for selection harvest and the complete marker guidance. Leave healthy beech otherwise remove these with BBD.</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> Acceptable regeneration mix of northern hardwood species.</p> <p><u>Other</u> The harvest will improve the existing stand quality. Regeneration is difficult of the northern hardwood species.</p> <p><u>Comment:</u> The stand is limited factor due to access and potentially a portable bridge being needed. Leave some beech where possible in hardwood stands being harvested</p> <p><u>Site Condition</u> Portable Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</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
29 33032029-Cut	133.1	4110 - Sugar Maple Association	Sawtimber Well	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selection Harvest: Retain approximately 70 BA. Follow the in stand retention guidelines for selection harvest and the complete marker guidelines.</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> Mix of northern hardwood species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Portion of this stand was treated under an MWR research project.</p> <p><u>Comment:</u> Gates at the end of the County line road. The main objective of this stand is to improve the existing stand quality. The harvesting of larger trees to create some canopy gaps for potential regeneration. Leave some beech where possible in hardwood stands being harvested</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
33 33032033-CC	5.5	4139 - Aspen, Mixed Deciduous	Poletimber Well	74	Unspecified	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Clearcut with reserves: Cut all trees in the clearcut treatment. Retain hemlock and healthy beech.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, mixed conifer and mixed deciduous species present.</p> <p><u>Regen:</u></p> <p><u>Other</u> Treatment boundary lines are approximate and will be determined in the field during treatment setup.</p> <p><u>Comment:</u> Leave cedar retention along the east line of stand in the transition area.</p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
33 33032033-thinning	3.0	4139 - Aspen, Mixed Deciduous	Poletimber Well	74	Unspecified	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> This is the northern hardwoods portion of the stand. Thin to 70 to 90 square feet of residual basal area. Follow in stand retention guidelines. Follow the complete marker guidelines. This is not intended to be a regeneration treatment and regeneration is not anticipated.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Treatment boundary lines are approximate and will be determined in the field during treatment setup. Garbage in the NW corner of stand.</p> <p><u>Comment:</u> Leave some beech where possible in hardwood stands being harvested</p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2023</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
37 33032037-Cut	28.7	6120 - Lowland Cedar	Poletimber Medium	99	Unspecified	Harvest	Clearcut with Retention	6129 - Mixed Coniferous Lowland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with reserves. Cut all species except hemlock and yellow birch, if present. Leave two pockets of 1/2 acre of mostly cedar with mixed species. Also, mark to leave scattered clumps of seed trees of mixed species.</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> Tamarack, cedar and mixed lowland conifer species.</p> <p><u>Other Comment:</u> Lines and blue lines were still in good shape. The stand was previously prescribed for harvest and the sale was turned back. Cedar regeneration exists in the stand and surrounding stands. Stands 37, 44, 46 – Cedar Research Project – MTU to monitor, contact research team.</p> <p>WLD Comments: This stand is in conditional range and has a canopy composition of 55% cedar. There is evidence of cedar regeneration within this area. There is also ample amount of cedar in this area to provide shelter for deer as well as other species that utilize cedar, even with the removal of the cedar with stand 37. WLD and FRD feel that this stand offers an opportunity to harvest cedar as an experiment that will be monitored by MTU.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
40 33032040-Spray	42.7	4139 - Aspen, Mixed Deciduous	Poletimber Medium	32	Immature	Pesticide	Hand Application	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Phragmites found down in the SE corner of the stand.</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></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
41 33032041-Cut	13.8	4110 - Sugar Maple Association	Sawtimber Well	85	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selection: Thin to 70-90 residual BA by mainly releasing better quality trees. Follow in-stand retention guideline and the complete marker.</p> <p><u>Specs:</u> Try a few regen gaps to see if hard maple regeneration can be successful in this area, but regeneration throughout the stand is not the treatment goal.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Mix of the northern hardwood species present.</p> <p><u>Other Comment:</u> The stand is marked and not complete from the previous contractor. Put this back up again refresh the paint marks, they still look good as of 4/2022. This harvest will improve the existing stand quality. Leave some beech where possible in hardwood stands being harvested</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</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
44 33032044-Cut	21.1	6120 - Lowland Cedar	Poletimber Well	102	Unspec ified	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Clearcut with reserves. Cut all species except hemlock and yellow birch, if present. Leave two pockets of 1/2 acre each of mainly cedar with mixed species. Also, mark to leave scattered clumps of seed trees of mixed species.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Cedar and lowland conifer mix.</p> <p><u>Other Comment:</u> The stand was previously prescribed and turned back by the contractor. The blue lines were still in good shape. This stand has the potential to regenerate cedar as witnessed by this and surrounding stands in the area. Stands 37, 44, 46 – Cedar Research Project – MTU to monitor, contact research team</p> <p>WLD Comments: This stand is in conditional range and has a canopy composition of 60% cedar. There is evidence of cedar regeneration within this area. There is also ample amount of cedar in this area to provide shelter for deer as well as other species that utilize cedar, even with the removal of the cedar with stand 44. WLD and FRD feel that this stand offers an opportunity to harvest cedar as an experiment that will be monitored by MTU.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
46 33032046-Cut	33.8	6120 - Lowland Cedar	Poletimber Well	107	Unspec ified	Harvest	Clearcut with Retention	6129 - Mixed Coniferous Lowland Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Clearcut with reserves. Cut all species except hemlock and yellow birch, if present. Retain out 100 foot diameter pockets of seed trees of mixed species determined at the time of sale prep.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Cedar and mixed lowland conifer species.</p> <p><u>Other Comment:</u> This stand was previously prescribed and turned back by the contractor. The blue line was in good condition. This stand has the potential to regenerate cedar as witnessed by this and surrounding stands in the area. This will break up the same size and similar ages of a large cedar complex across multiple compartments. Stands 37, 44, 46 – Cedar Research Project – MTU to monitor, contact research team</p> <p>WLD Comments: This stand is in conditional range and has a canopy composition of 60% cedar. There is evidence of cedar regeneration within this area. There is also ample amount of cedar in this area to provide shelter for deer as well as other species that utilize cedar, even with the removal of the cedar with stand 46. WLD and FRD feel that this stand offers an opportunity to harvest cedar as an experiment that will be monitored by MTU.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Approved Treatments:

5 33032005-Rel	2.8	4130 - Aspen	Sapling Well	21	Immature	NonForestMgt	Brush Cutting	4134 - Aspen, Spruce/Fir		No
<p><u>Prescription Specs:</u> Release apple trees, brush around apple trees, cut some apples to restart trees from stumps and release others from competition.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> If apples trees are not released, they will be over come by competition. The cut trees will need fencing to prevent browsing by deer and rabbits. This work might be funded and contracted with partners. Old next step comments: Monitor progress to ensure the treatments are successful.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 12/30/1899</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
32 33032032-PC	0.5	6120 - Lowland Cedar	Poletimber Well	100	Unspecified	Pesticide	Hand Application	6120 - Lowland Cedar	Even-Aged	No
<p><u>Prescription</u> Phragmites was found in a relatively small pocket along the winter access road. Treat appropriately to eliminate it before it spreads and becomes unmanageable.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Invasive Species</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> The pocket is small now but needs to be treated before it becomes larger. Old next step comments: Monitor treatment for effectiveness.</p> <p><u>Site Condition</u> Wildlife Concerns</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
40 33032040-PC	0.1	4139 - Aspen, Mixed Deciduous	Poletimber Medium	32	Immature	Pesticide	Hand Application	4134 - Aspen, Spruce/Fir	Unspecified	No
<p><u>Prescription</u> Treat phragmites to prevent its spread and before it becomes unmanageable.</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> One pocket was found in and opening in the central eastern portion of the stand. Old next step comments: Monitor treatment for effectiveness.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 12/30/1899</p>										
47 33032047-Monitor	31.7	4115 - Y.Birch, Hemlock NH	Sapling Poor	15	1-50	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Regeneration survey.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Sugar maple, basswood, white ash, red maple, and birch.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
6 NF_33032006-Rel	1.9	3102 - Grass	Nonstocked			NonForestMgt	Brush Cutting	3301 - Low Density Deciduous Trees		No
<p><u>Prescription</u> Release apple trees, brush around apple trees, cut some apples to restart trees from stumps and release others from competition.</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> If apples trees are not released, they will be over come by competition. The cut trees will need fencing to prevent browsing by deer and rabbits. This work might be funded and contracted with partners. Old next step comments: Monitor progress to ensure the treatments are successful.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 12/30/1899</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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11 NF_33032011-Rel	1.0	3102 - Grass	Nonstocked			NonForestMgt	Brush Cutting	3102 - Grass		No
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Prescription Release apple trees by brushing around apple trees and reducing competition to promote survival and growth.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Comment: If apples trees are not released, they will be over come by competition. Old next step comments: Monitor progress to ensure the treatments are successful.

Site Condition

Proposed Start Date: 12/30/1899

16 NF_33032016-Rel	1.0	3102 - Grass	Nonstocked			NonForestMgt	Brush Cutting	3102 - Grass		No
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Prescription Release apple trees by brushing around apple trees and treating competition to promote growth and insure survival.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Comment: If apples trees are not released, they will be over come by competition. Old next step comments: Monitor progress to ensure the treatments are successful.

Site Condition

Proposed Start Date: 12/30/1899

Total Treatment Acreage Proposed: 505.1

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Racine: Examiner

Compartment: 32
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	2B	2D	3L	5D	5E
		With Condition	Not Available						
234	225	9	0	Aspen	9				
535	105	0	430	Cedar			430		
4	4	0	0	Herbaceous Openland					
3	3	0	0	Low-Density Trees					
33	0	0	32	Lowland Conifers			32		
29	0	0	29	Lowland Deciduous				29	
7	7	0	0	Lowland Mixed Forest					
167	167	0	0	Lowland Shrub				0	
23	10	12	1	Mixed Upland Deciduous		12			1
262	249	13	0	Northern Hardwood		13			
38	38	0	0	Tamarack					
10	10	0	0	Upland Conifers					
8	8	0	0	Upland Spruce/Fir				0	
1,353	826	34	493	Total Forested Acres	9	25	463	29	1
	61%	3%	36%	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	2B: Unknown if access through adjacent landowner(s) is possible	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Unknown if the landowner will give permission. Permission given to adjacent landowner for this access road. In book							
2	Unavailable	5D: Unproductive Forest Land	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Racine: Examiner

Compartment: 32
Year of Entry: 2024

3	Unavailable	3L: Other wildlife concerns	463	Unspecified	Unspecified	Unspecified	Unspecified
Comments: High amount of northern white cedar. Lack of treatment due to Deer Winter Range Guidelines.							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: High amount of northern white cedar. Lack of treatment due to Deer Winter Range Guidelines.							
5	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	12	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: The crossing of Depas Creek on the road is wide and not feasible for a culvert at this location. Winter time crane mats and packed snow for the approaches may be sufficient. Access gate at the north end of the private and requires private permission.							
6	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention, may be adjusted at the time of sale prep.							
7	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	13	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: The location of the road crossing at Depas creek is 50 feet wide in the spring from water edge to edge. Culvert is not feasible but harvesting in the winter with crane mats and packed snow for the approaches may work. Access through private is required.							

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



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 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.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																		
1	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Well	9.5	134	111-140	N/A	Several low islands about 5 to 10 feet above surrounding swamp with cedar and hemlock. In places, no understory. Other species observed: yellow birch, quaking aspen, white pine.																																		
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2	6120 - Lowland Cedar	Poletimber Well	72.5	84		N/A	Mostly low ground but occasional island of higher ground. Lots of leaning trees but some areas are straight and tall without blowdowns. Creek runs N-S in the northern portion. Other species observed: black spruce. Portions in the NE part of stand are upland with balsam fir, cedar birch and aspen.																																		
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3	6220 - Alder/willow	Nonstocked	3.2			No																																			
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4	6220 - Alder/willow	Nonstocked	15.5			No	Creek runs N-S through stand. Lots of blow-down and dead and down.																																		
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5	4130 - Aspen	Sapling Well	72.1	21	Immature	N/A	ORV trail in northern portion of stand with foot trail over creek in stand to the west. A stand of red pine log trees in NE portion too small to map. White pine are being pruned for brush. Other species observed: hemlock, basswood, paper birch, black ash, white pine, red pine and cherry Treat as one but small piece to north could be cut now.																																		
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6	3102 - Grass	Nonstocked	1.9			No	apple trees need to be released. Found white pine being pruned by brushers for green brush.																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments								
7	4110 - Sugar Maple Association	Sawtimber Medium	15.5	65	111-140	N/A	Combined three small stands--should all be treated at the same time--probably next entry. Other species observed: red maple, balsam fir, hemlock, white spruce, quaking aspen, white ash.								
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species									
Sugar Maple		70	Log/Pole	10	65	Ironwood									
Basswood		30	Log/Pole	10		White Spruce									
						Hemlock									
						Balsam Fir									
8	6120 - Lowland Cedar	Sawtimber Poor	7.2	130		N/A	Lots of dead standing cedar poles due to old beaver flooding. Other species observed: paper birch, tamarack.								
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species									
Balsam Poplar		5	Pole	5		Black Ash									
Northern White Cedar		90	Log/Pole	10	130	Tag Alder									
Paper Birch		5	Pole	8											
9	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	13.0	51	81-110	N/A	This stand was separated out from east side of stand 15 and the south end of stand 25 with more aspen and balsam. The majority of aspen is the south part with the west side transitioning to the swamp with mixed upland/lowland hardwood species and scattered softwood including cedar.								
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species									
Northern White Cedar		5	Pole	8		Balsam Fir									
Quaking Aspen		25	Pole	9	51										
Red Maple		20	Log/Pole	10											
Yellow Birch		5	Pole	9											
Sugar Maple		5	Pole	9											
Paper Birch		5	Pole	8											
Balsam Fir		20	Pole	8											
10	629 - Mixed non-forested wetland	Nonstocked	19.3			No	Beaver flooding.								
11	3102 - Grass	Nonstocked	1.0			No	<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>Apple (spp.)</td> <td>Low</td> <td></td> <td>Pole</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Apple (spp.)	Low		Pole
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12	6118 - Lowland Deciduous with Cedar	Poletimber Poor	29.5	100	Unspecified	N/A	Last field check in 1/2012 Nice quality cedar, straight and tall along perimeter but interior of stand site is much wetter with many leaning and blown over trees.								
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species									
White Spruce		2	Pole	10		Balsam Fir									
Northern White Cedar		20	Pole	8	125	Tag Alder									
Black Ash		63	Pole	6	100										
Paper Birch		15	Pole	5											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
13	4130 - Aspen	Sapling Well	30.6	26		N/A	Mostly high ground but N-S drain in middle of stand; two pockets of cedar w/ many blowdowns in northern portion; occasional open areas of lowland grass. Other species observed: red maple, hemlock white spruce.																																																	
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14	4119 - Mixed Northern Hardwoods	Sawtimber Well	13.9	80	81-110	N/A	I did add some red maple as I found some here, more in the low area. Decent quality sugar maple Logs/poles. Lot of balsam fir in understory. Other species observed: yellow birch, beech, hemlock, cedar and black and green ash in the drainage.																																																	
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15	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	32.6	51		N/A	Some old beaver floodings, Depas Creek flows E to W. Some areas are heavier to black ash--mostly in southern portion of stand. Other species observed: white spruce, white pine.																																																	
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16	3102 - Grass	Nonstocked	1.0			No	trees filling in small narrow opening w/ several apple trees.																																																	
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17	42330 - Upland Fir	Sapling Medium	8.4	16	Immature	N/A	Mostly upland but low ground near middle of stand. Some portions are more open with raspberry.																																																	
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18	4110 - Sugar Maple Association	Sawtimber Well	11.1	85	111-140	N/A	Lots of balsam fir in understory. Scattered pole-sized hemlock. Other species observed: basswood, ironwood, white ash, hemlock.																																																				
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21	4134 - Aspen, Spruce/Fir	Poletimber Well	21.2	29	Immature	N/A	High/Low ground																																																				
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22	6229 - Mixed lowland shrub	Nonstocked	59.9			No	old beaver floodings																																																				
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24	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	6.6	129		N/A	Last field checked in 1/2012. Some areas are good quality cedar products but some area poor quality. Yellow birch quality varies. Other species observed: basswood, black ash, hemlock.																																													
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25	4110 - Sugar Maple Association	Sawtimber Well	13.0	85	81-110	N/A	SE corner drops down to lower ground with mostly cedar--too small to map. Most beech are large, wolfy and hollow--some with bear claw marks. Other species observed: balsam fir, yellow birch.																																													
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26	3303 - Mixed Low Density Trees	Nonstocked	3.0			No	Opening is filling in from the perimeter but a couple of areas are more open.																																													
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27	4136 - Aspen, Mixed Conifer	Sapling Well	19.2	17	Immature	N/A	Red maple is mostly stump sprout origin with most making it above the deer but some are heavily browsed. Along the SW edge of stand is a mature c/rm/pb/hem stand too small to map. Other species observed: black cherry, hemlock, balm.																																													
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28	6120 - Lowland Cedar	Poletimber Well	5.2	130	Unspecified	N/A	lots of leaning trees with sweep but also some nice quality posts 1-2 sticks/tree. Ridge in central portion also has cedar with red maple and balsam fir. Last field checked in 1/2012																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
29	4110 - Sugar Maple Association	Sawtimber Well	133.2	90	111-140	N/A	A 31.7 acre portion of this stand was seed tree cut in 2018 on contract 33-028-17 that is now stand 47. Within this stand and harvested portion 20 BA of mixed species were retained. All trees and tops less than 9" were left on-site. This harvest is part of a larger research project with MSU.																																																							
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30	4134 - Aspen, Spruce/Fir	Poletimber Well	39.5	33	Immature	N/A	mostly high ground grading into the swamp but some low ground, too. Other species observed: tamarack, white spruce, balm. Lots of cedar regen and recruiting particularly along stand edges to the cedar stands.																																																							
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32	6120 - Lowland Cedar	Poletimber Well	260.0	100	Unspecified	N/A	very wet site. dense understory. many leaning and blown over trees. mostly 1-2 sticks/tree. Other species observed: quaking aspen, black spruce.																																																							
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33	4139 - Aspen, Mixed Deciduous	Poletimber Well	8.6	74	Unspecified	N/A	Steep slope in most of stand. Mostly aspen/fir on slope with northern hardwood stand in NW portion of stand and black ash type along east boundary near swamp. Other species observed: yellow birch, paper birch, black cherry. Garbage in the NW corner of stand.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
34	6220 - Alder/willow	Nonstocked	44.4			No	cattails, red osier dogwood, cedar and tamarack																																								
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35	6229 - Mixed lowland shrub	Nonstocked	14.3			No	very wet site, mostly scattered trees but some areas have 25-50% cedar crown closer but too small to map.																																								
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36	6121 - Tamarack	Sapling Well	38.1	44	Unspecified	N/A	Amazing stand of nearly pure tamarack saplings. Probably last cut in the 1950's or 60's.																																								
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37	6120 - Lowland Cedar	Poletimber Medium	28.7	99	Unspecified	N/A	Tamarack runs 10 to 12 inch dbh and some smaller. Most tamarack has split tops for the larger dbh ones.																																								
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38	42360 - Upland Cedar	Sawtimber Well	5.7	114		N/A	very good site, transition to swamp. Cedar is straight and tall 4-5 sticks/tree. Many blowdowns in the northern portion of stand. Other species observed: yellow birch, balsam fir.																																								
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39	629 - Mixed non-forested wetland	Nonstocked	10.5			No																																									
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40	4139 - Aspen, Mixed Deciduous	Poletimber Medium	42.8	32	Immature	N/A	mostly well stocked but some areas are more open. More paper birch in northern portion. Other species observed: cedar, pin cherry, paper birch.																																	
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41	4110 - Sugar Maple Association	Sawtimber Well	13.8	85	111-140	N/A	The south end is better than the north end. Some nice quality sugar maple and basswood logs and poles. Some areas have very heavy understory of balsam fir. Last treated in 1989. Other species observed: hemlock, cedar, beech, black cherry.																																	
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42	6120 - Lowland Cedar	Poletimber Poor	57.8	126		N/A	Last field check in 1/2012																																	
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43	6120 - Lowland Cedar	Sawtimber Well	8.5	124		N/A	mostly pretty wet site with many leaning or wind thrown trees but some portions are better drained and trees are straight and tall. Other species observed: white spruce, red maple, balsam fir.																																	
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44	6120 - Lowland Cedar	Poletimber Well	21.1	102	Unspecified	N/A	The tamarack is about 30 to 40 % mortality . Some cedar seedling found in places. Other species observed: paper birch.																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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46 6120 - Lowland Cedar Poletimber Well 33.8 107 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole	7		Balsam Fir	Medium	10 - 20 feet	Sapling
Northern White Cedar	60	Pole	6	107	Tag Alder	Low	5 - 10 feet	Tall Shrub
Tamarack	30	Pole	8	109	Northern White Cedar	High	Variable	Pole

47 4115 - Y.Birch, Hemlock NH Sapling Poor 31.8 15 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	20	Sapling	1		Ironwood	Low	5 - 10 feet	Sapling
Sugar Maple	10	Log	13	90	Blackberry/Raspberry	Full	5 - 10 feet	Tall Shrub
Yellow Birch	10	Log	12		Beech	Medium	< 5 feet	Sapling
Hemlock	15	Log	12					
White Ash	10	Sapling	1					
Beech	35	Sapling	1	15				

This stand is a 31.7 acre seed tree cut in 2018 on contract 33-028-17. Within the harvested area 20 BA of mixed species were retained. All trees and tops less than 9" were left on-site. This harvest is part of a larger research project with MSU. In the research area: most is raspberry 3 to 5 feet, scattered beech from before and post harvest regen that is variable from 3 to 5 and some 10 feet. Ash, basswood, ironwood also found some from pre and post harvest with some as high as 20 feet, stump sprout mostly and single stem of the ironwood. Significant blowdown of the seed trees counted 20 to 30 in the area I walked. Hemlock yellow birch, sugar maple left in that order for seed trees with a few scattered cedar. The seed tree residual make up 5 to 10 percent canopy and understory is raspberry, beech, ash, ironwood, basswood in that order. The stand will be checked for regeneration by the MWR research project in FY 2022 and this specific data can be saved to the stand.