



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33026

Entry Year 2025

Acreage: 330

County Menominee

Management Area: Menominee-Marquette

Stand Examiner: Dustin Salter

Legal Description:

T35N R29W Section 25

Identified Planning Goals:

This compartment is comprised primarily of aspen stands with varying densities of pin oak mixed in. The high deer numbers in this area have caused sustained overbrowsing which reduces plant cover and diversity, alters nutrient and carbon cycling, and redirects succession to shift future overstory composition. This is chronic, pervasive and has long-lasting impacts on the composition and diversity of our future forests. The aspen stands harvested in the past twenty years, have significantly less red maple and oak regeneration than the parent stand, due to the continuous deer browsing. A mature aspen stand will be harvested while it is vigorous enough to sprout. Two small planted red pine stands will have their first thinning done. The thinning will improve the spacing and growth of the residual trees. One small mixed deciduous stand will also be harvested.

Soil and topography:

Soils are primarily Rubicon sand with some Grayling and Pemene. Topography is level to gently rolling.

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

This compartment is located in the middle of a block of state forest land that is about 20 miles long and 8 miles wide in the southwestern part of Menominee County. The compartment is surrounded by state land on the east and south sides. The north and west sides are all private property. The primary use of the land around the compartment is recreation. There are also some residences to the north and west of the compartment.

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:

There are no designated or specially managed resources in this compartment. Compartment 109 lies to the east and south of this compartment. Compartment 109 is managed as (not-dedicated) a Natural Area. This area is managed as a Oak/Pine barrens.

Watershed and Fisheries Considerations:

This compartment does not contain any lakes and streams. However there is a small amount of wetlands and a 100' buffer is recommended to protect these areas in accordance with BMPs.

Wildlife Habitat Considerations:

Compartment 26 is part of the Menominee End Moraine Management Area. This management area contains forest types that are adapted to sandy outwash plain conditions. The Shakey Lakes Savanna Natural Area is located here. Most of the unit's oak resource is located in this management area, and perpetuation of this cover type is of high priority. The presence of oak wilt disease increases the urgency to find management solutions to oak regeneration challenges. There are also opportunities to expand and link forest openings and upland brush habitats using prescribed burns and mechanical treatments. Featured wildlife species include black bear, ruffed grouse, and eastern bluebird.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. No active sand & gravel pits are known to exist in the area. Surface sediments appear to contain significant amounts of clay in this area, and potential for sand & gravel within the compartment may be limited. Some remote geophysical surveys covering this area have been conducted, but there is no evidence of past ground-based mineral exploration. There may be potential for metallic and critical minerals beneath the compartment, but there is no active mineral leasing within the compartment.

Vehicle Access:

There are two county roads that run down both the west side (Z-1 Road) and the east side (Sturgeon Landing Road). There are a couple of two-track roads that branch off the county roads that transect the compartment.

Survey Needs:

No registered corners will need to be set.

Recreational Facilities and Opportunities:

There are no developed recreational facilities within the compartment. The main uses for this area are hunting and four-wheeling.

Fire Protection:

There is very little threat of a major fire in this compartment, due to the abundance of deciduous cover types. There are no water resources available within the compartment, but the Menominee River is only about a mile to the west and the chain of Shakey Lakes is only about a half mile to the north.

Additional Compartment Information:

The following reports from the Inventory are attached:

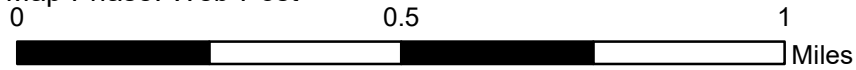
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

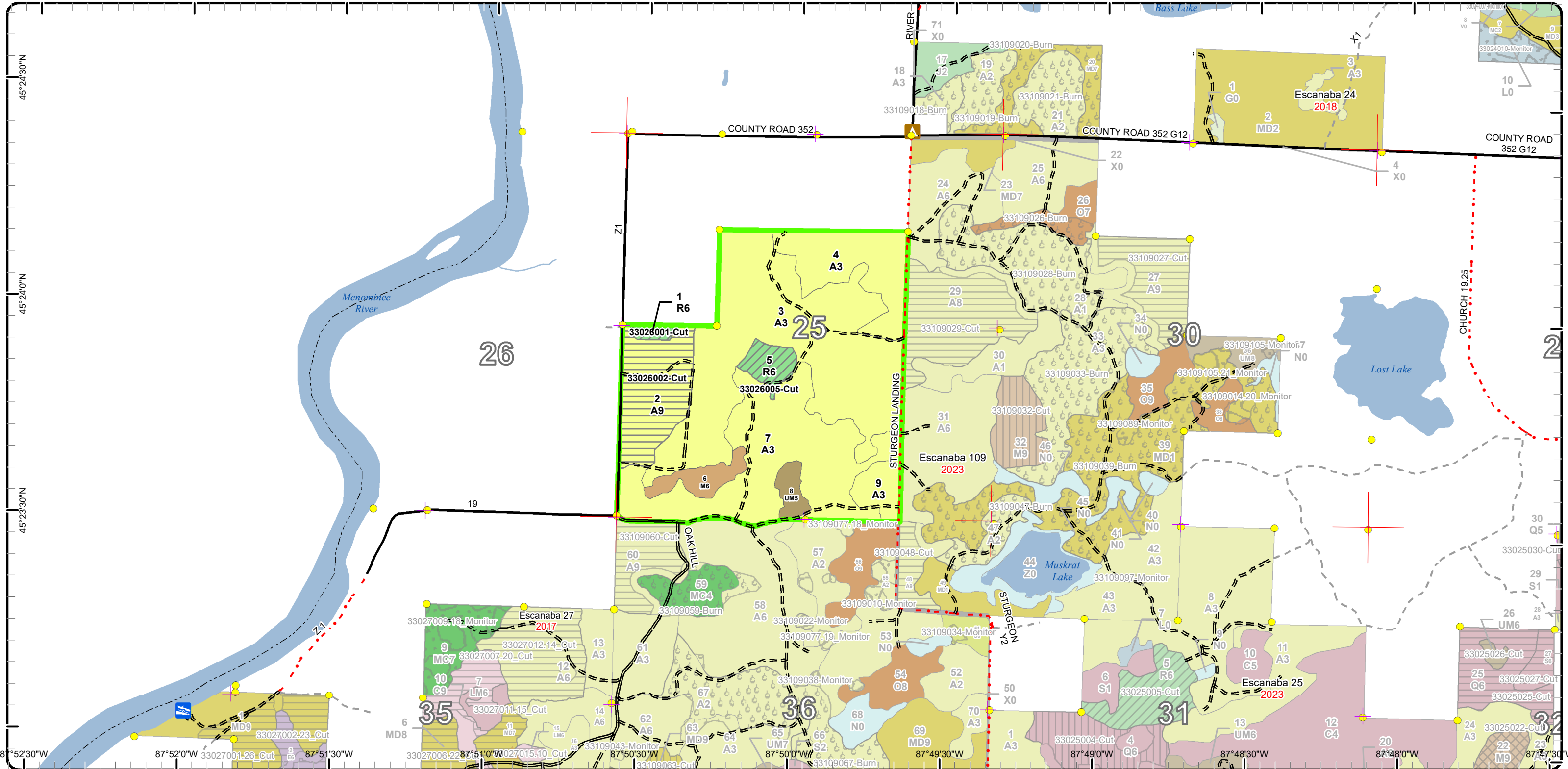
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 26
 T35N-R29W Sec. 25
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Menominee-
 Marquette
 YOE: 2025
 Acres: 330.3 GIS Calculated
 Examiner: Dustin Salter
 Map Revised: 6/26/2023
 Map Phase: Web-Post

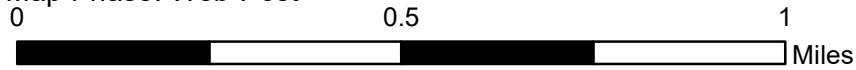


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- 🚤 Boating Access Site
- ▲ Campground
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 430 - Upland Mixed Forest

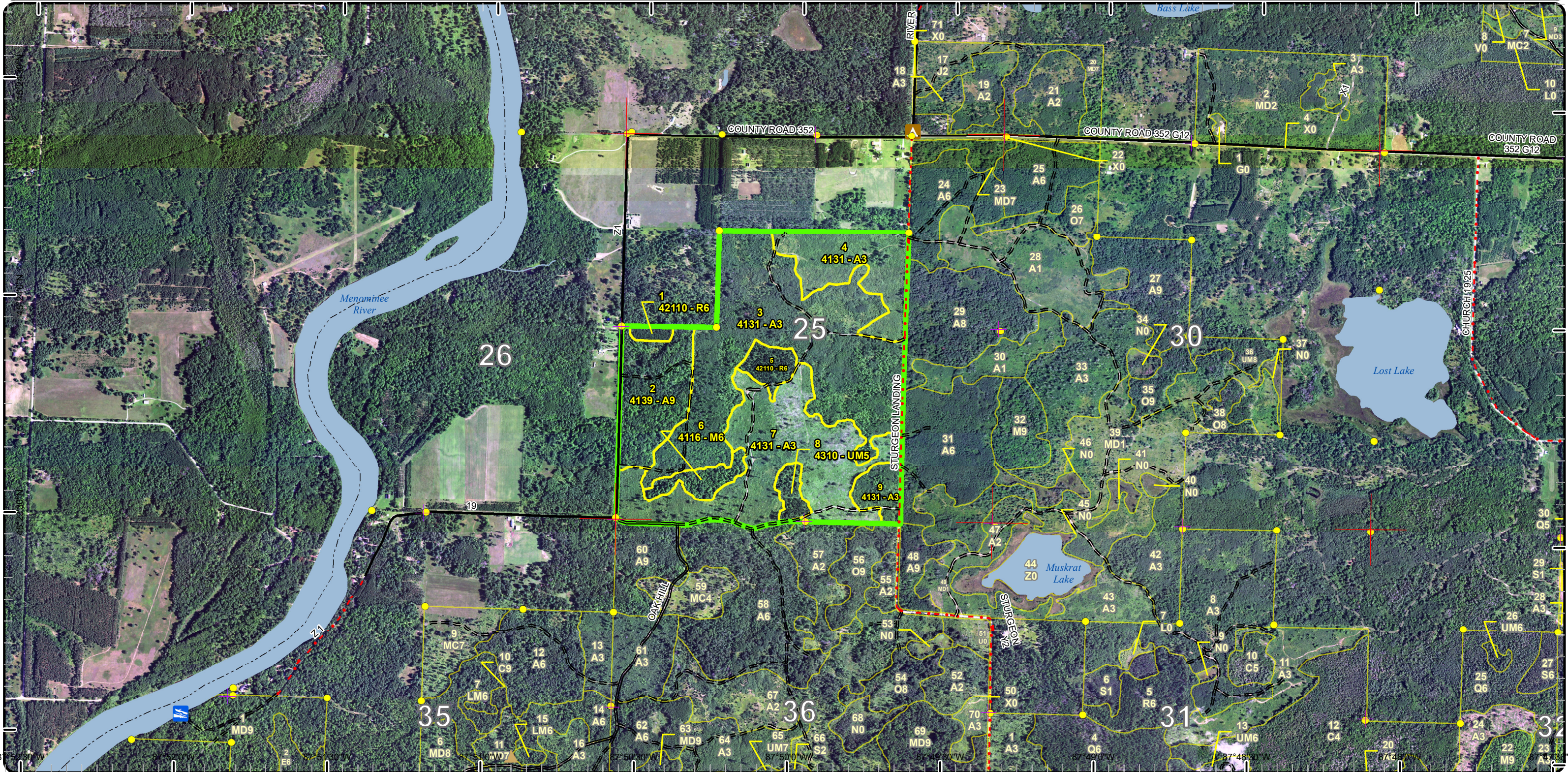


Stand Boundary Map

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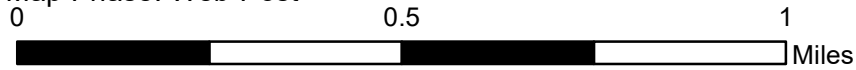


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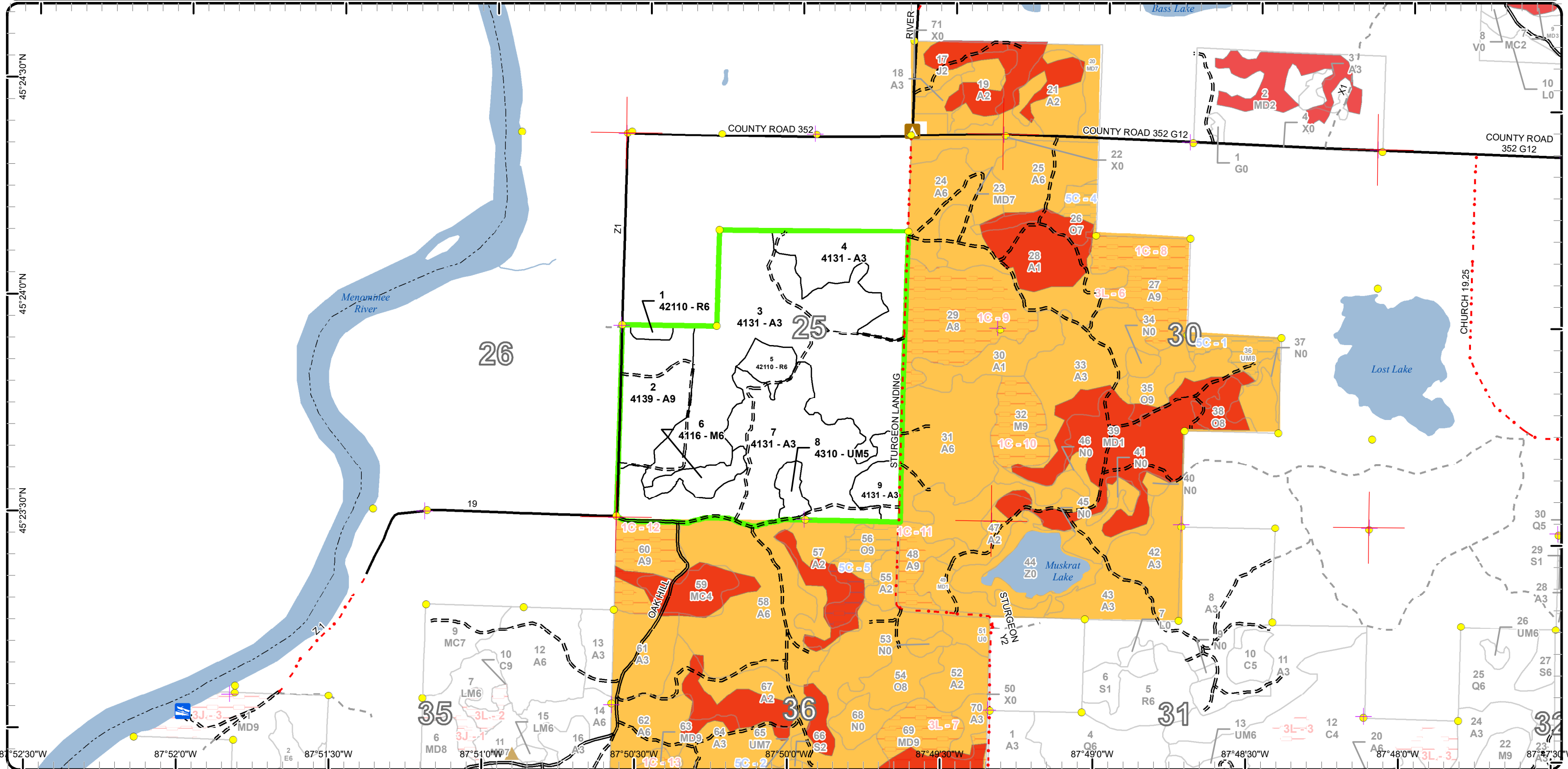


Special Conservation Areas

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- Stand Boundaries
- Ecological Reference Areas
- Non-Dedicated Natural Areas and National Natural Landmarks



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+	Unnever-Aged	Total
Aspen	0	89	178	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	303
Northern Hardwood	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	10
Red Pine	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Upland Mixed Forest	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	0	89	178	17	0	0	10	37	0	0	0	0	0	0	0	0	0	0	330



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 26

Total Compartment Acres: 330

Commercial Harvest - 48
 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	37	0	0	0	0	0	0	0	0	37
Red Pine	0	0	0	0	11	0	0	0	0	11
Total	37	0	0	0	11	0	0	0	0	48

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	48	0	0	0	0	0	0	0	0	48
Next Step	0	0	0	0	0	37	0	0	0	37
Total	48	0	0	0	0	37	0	0	0	85



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Treatments:

1	33026001-Cut	2.7	42110 - Planted Red Pine	Poletimber Well	29	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin the stand by removing every third row, where spacing allows. Some of the lowest quality stems in the leave rows can also be marked to cut in the densest areas of the stand.</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> The row thinning will allow space for the residual stems to improve height growth.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
2	33026002-Cut	37.0	4139 - Aspen, Mixed Deciduous	Sawtimber Well	66	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH. Except retain all white and red pine. Also, leave enough retention patches to have 10% retention overall. The retention patches will be retained where the percentage of oak, pine and red maple is higher.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, maple, oak, and pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> This stand was delayed from harvest last entry to improve the age class diversity of the aspen in the compartment. The aspen, red maple, and pin oak need to be harvested now while they are vigorous enough to sprout following the harvest.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
5	33026005-Cut	8.5	42110 - Planted Red Pine	Poletimber Well	29	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin the stand. In the areas with dense rows, remove one row and leave two rows. The other areas of the stand with more open spaced pine, thin the stand down to 90 to 100 BA.</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> Thinning the stand will improve the height growth on the residual trees.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											

Total Treatment Acreage Proposed: 48.2

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	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
1	42110 - Planted Red Pine	Poletimber Well	2.7	29	141-170	N/A	Stand was trenched and planted with red pine in 1994. Good quality planter red pine stand that is ready to be thinned for the first time.																																											
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2	4139 - Aspen, Mixed Deciduous	Sawtimber Well	37.0	66	81-110	N/A	Mature aspen and red maple stand with some older pin oak and pine mixed in. All of the species are mature and are ready to be cut. This stand was delayed from harvest last entry to improve the age class diversity of the aspen in the compartment. The aspen, red maple, and pin oak need to be harvested now while they are vigorous enough to sprout following the harvest.																																											
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3	4131 - Aspen, Oak	Sapling Well	131.5	17	Immature	N/A	Fully stocked aspen and oak stand with some mature pine. There is some advanced aspen, oak, and maple regeneration within the stand, it is about 35 years old. This stand was clearcut in 2006 & 2007 on contracts 025-05-01 and 022-07-01. A number of oak with epicenters were treated on one of the contracts, which included being vibratory plowed & clearcut.																																											
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4	4131 - Aspen, Oak	Sapling Well	36.2	10	Immature	N/A	Fully stocked aspen stand with a high percentage of pin oak regeneration. There are some residual pine and oak that was retained. This stand was clearcut in 2013 on contract 022-11-01. There were 4 retention patches left within the stand equaling 2.2 acres. One of the patches was identified to have oak wilt following the harvest, so this site was vibratory plowed and clearcut in 2014 on contract 021-14-01.																																											
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<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>Red Maple</td> <td>5</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>10</td> <td>Pole/Sapling</td> <td>5</td> <td>29</td> </tr> <tr> <td>Red Pine</td> <td>85</td> <td>Pole/Log/Sap</td> <td>8</td> <td>29</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	5	Pole/Sapling	6		Black Cherry	10	Pole/Sapling	5	29	Red Pine	85	Pole/Log/Sap	8	29	<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>Bigtooth Aspen</td> <td>Low</td> <td>>20 feet</td> <td>Sapling</td> </tr> <tr> <td>Northern Pin Oak</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Witch Hazel</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Bigtooth Aspen	Low	>20 feet	Sapling	Northern Pin Oak	Low	5 - 10 feet	Sapling	Witch Hazel	Medium	5 - 10 feet	Tall Shrub											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
6	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	9.7	56	51-80	N/A	Mature red maple and aspen stand, that is ready to be harvested while the aspen is vigorous enough to sprout. The age of the red maple varies from 30 to 80 years old. This stand will be held to provide some mature aspen within the compartment. There are some pin oak saplings and small pole sized stems that will be retained from the harvest. The west end of the stand was planted with red pine in 1984, but very little of it survived. There are only some scattered red pine poles/saplings remaining.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		30	Log/Pole	10	56	Witch Hazel		
Paper Birch		2	Pole/Sapling	5	56	Medium		
Northern Pin Oak		6	Pole/Sapling	5	56	5 - 10 feet		
Black Cherry		5	Pole/Sapling	5	56	Tall Shrub		
Red Pine		2	Pole/Sapling	5	29			
Red Maple		55	Pole/Log/Sap	8	56			
7	4131 - Aspen, Oak	Sapling Well	88.5	8	Immature	N/A	Fully stocked aspen and pin oak stand with some residual pine and oak. This stand was clearcut in 2015 on contract 021-14-01. There were three oak wilt patches treated in the stand for 3.9 acres. Some mature pine and oak seed trees were retained.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		5	Sapling	1	8	Witch Hazel		
Bigtooth Aspen		35	Sapling	2	8	Medium		
Quaking Aspen		25	Sapling	2	8	5 - 10 feet		
Northern Pin Oak		20	Sapling	1	8	Tall Shrub		
White Pine		5	Log/Pole/Sap	16	108	Blackberry/Raspberry		
White Oak		3	Log/Pole/Sap	15	108	Low		
Red Pine		2	Log/Pole/Sap	15	108	5 - 10 feet		
Black Cherry		5	Sapling	1	8	Tall Shrub		
8	4310 - Pine, Oak Mix	Poletimber Medium	6.0	29	51-80	N/A	Stand was trenched and planted with red pine in 1994. The southern half of the stand has denser red pine, but the northern half of the stand only has scattered clumps of red pine. The open areas of the stand have regenerated with pin oak, red maple, aspen, and black cherry. No treatment is needed at this time.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		5	Pole/Sapling	6	29	Witch Hazel		
Red Pine		45	Pole/Sapling	7	29	Medium		
Jack Pine		5	Pole/Sapling	6	29	5 - 10 feet		
Red Maple		10	Pole/Sapling	6	29	Tall Shrub		
Northern Pin Oak		30	Pole/Sapling	6	29			
Black Cherry		5	Pole/Sapling	5	29			
9	4131 - Aspen, Oak	Sapling Well	10.1	15	Immature	N/A	Fully stocked aspen and oak stand with a few residual mature pine and pole sized red maple. This stand was clearcut in 2008 on contract 025-08-01. This stand was cut because it contained 3-4 epi-centers of oak wilt that was treated (vibratory plowed & harvested). The red pine and white pine were retained.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		10	Pole/Log	8	65	Witch Hazel		
Quaking Aspen		40	Sapling	3	15	Medium		
Northern Pin Oak		20	Sapling	2	15	5 - 10 feet		
White Pine		2	Log/XLog	16	108	Tall Shrub		
Black Cherry		8	Sapling	2	15			
Bigtooth Aspen		20	Sapling	3	15			