



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33096

Entry Year 2025

Acreage: 751

County Delta

Management Area: Menominee-Marquette

Stand Examiner: Dan Racine

Legal Description:

T43N, R22W, SEC. 22, 27, 34, Delta County, Michigan.

Identified Planning Goals:

The majority of the lowland cover types within this compartment are cedar and lowland poplar. The majority of the upland cover types are aspen and northern hardwoods. The treatments are within the northern hardwood and aspen cover types. The northern hardwoods in this area have some areas of regeneration. The treatments are designed to enhance and encourage northern hardwood regeneration while improving the existing stand quality. The aspen harvests are designed to distribute the age class distribution of the aspen resource within the area.

Soil and topography:

Major soil series include Carbondale, Longrie, Trenary, Cathro, Tawas and Sundell. Topography ranges from nearly level to moderately steep.

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

Section 22 has non-industrial private land to the south and east and State land to the north and west. The ownership in sections 27 and 34 is non-industrial private land to the north and state land to the south, west, and east. Most of the land use in and around this compartment is multiple uses, with forestry, hunting, trapping and some camping.

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 Elm Creek, the Rapid River, and two unnamed streams that serve as tributaries to the Rapid River. Elm Creek, the Rapid River, and the two unnamed waterbodies are designated Type 1 trout streams less than 50 foot wide and have predicted mean July temperatures that range from 64.0 to 66.9 °F (cold to cool streams). A 300' buffer is recommended for riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100 feet, plus 5 feet per 1% increase in slope, buffer is recommended to protect riparian areas in accordance with Best Management Practices.

- No Forestry activities (i.e., timber harvest, scarification, opening maintenance) should occur within 656 feet (200m) of occupied Wood Turtle habitat during the active period of April through September.
- To minimize habitat loss and fragmentation, final harvest/clearcuts should not occur within 656 feet (200m) of rivers and streams occupied by wood turtles.

Wildlife Habitat Considerations:

Compartment 96 is part of the Dead Horse Moraines Management Area. Dominant forest types include Aspen, Lowland Cedar, Northern Hardwoods, and Lowland Deciduous Forest. The primary focus of wildlife habitat management in the Dead Horse Moraines management area will be to address the habitat requirements identified for the following featured species: black bear, pileated woodpecker, ruffed grouse and white-tailed deer. Based on the selected featured species, some of the most significant wildlife management issues in the management area are mast (hard and soft); mature forest (upland deciduous, especially aspen and mixed forest with little understory); coarse woody debris, early successional forest and deer wintering complexes.

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 operations are known to occur in the area, but there is evidence of past aggregate mining in small pockets on the edge of the

compartment. Much of the compartment consists of low wetlands, which would inhibit surface mining. However, there is some potential for additional sand & gravel development within the compartment on the uplands. In addition, bedrock limestone is very near the surface in places within the compartment, and there may be some potential for crushed limestone. Some remote geophysical surveys covering this area have been conducted, and some past test drilling for iron ore by Cleveland Cliffs was completed to the northeast and west. There may be potential for iron ore beneath southwest portion of the compartment (Sec 34), but it may be too deep to have significant economic value. Additional research is needed. No current leasing activity involving State-owned mineral rights exists in the area.

Vehicle Access:

The area in section 22 has no vehicle access due to private ownership. The area in section's 27 and 34 has a good road system via the Maki road and Friday flooding road. Most of this area can be accessed using a two wheel drive vehicle.

Survey Needs:

None.

Recreational Facilities and Opportunities:

Hunting, fishing, trapping and camping.

Fire Protection:

Fire should not be a problem in this area. However, this area does receive a lot of use from local people and some tourist. Should a fire start the timber types in this area will keep the fire small.

Additional Compartment Information:

The following reports from the Inventory are attached:

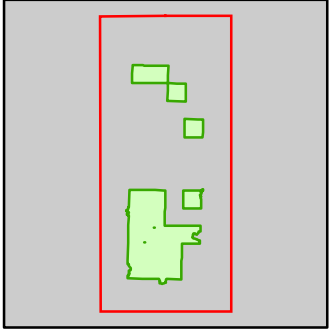
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

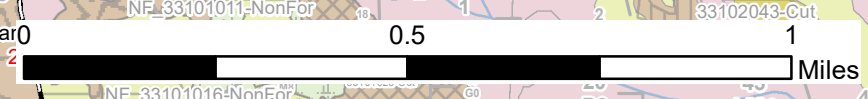
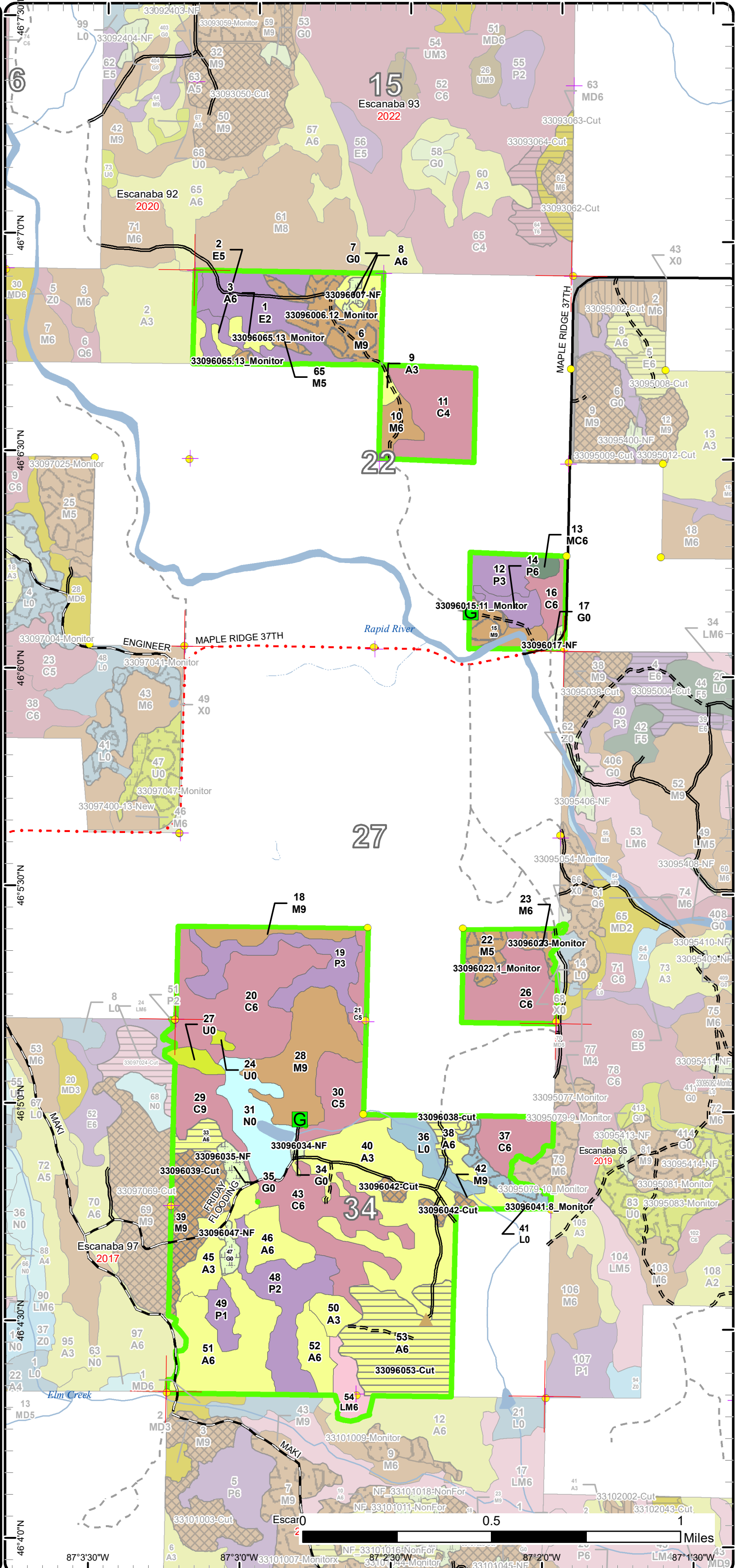
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 96
 T43N-22W Sec. 22,27,34
 County: Delta
 Unit: Escanaba
 Mgmt Area: Menominee-Marquette
 YOE: 2025
 Acres: 751.1 GIS Calculated
 Examiner: Dan Racine
 Map Revised: 6/26/2023
 Map Phase: Pre-Review



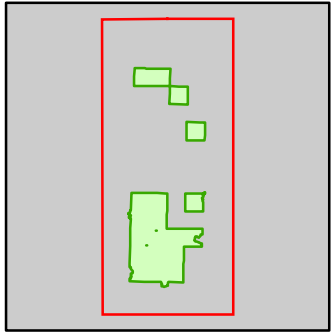
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- G** Gate
- Compartment Boundary
- ▨ Other Treatment - See Comments
- ▨ Selection (Group, Single Tree)
- ▨ Clearcut (w/Reserves)
- ▨ Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 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
- 623 - Emergent Wetland



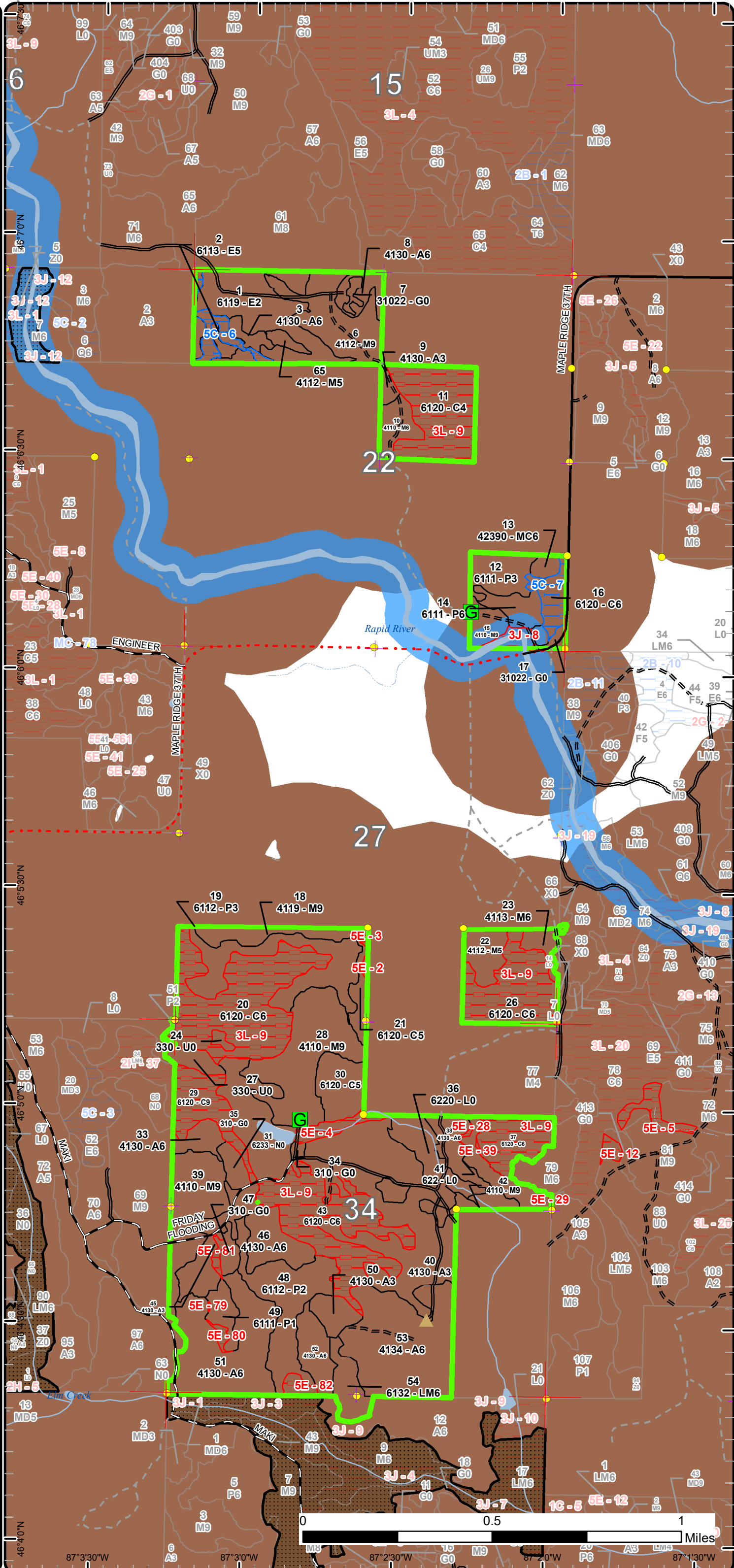
46°40'N 87°3'30"W 46°30'N 87°30'W 46°20'N 87°20'W 46°10'N 87°10'W 45°40'N 87°10'W

Special Conservation Areas

Compartment: 96
 T43N-22W Sec. 22,27,34
 County: Delta
 Unit: Escanaba
 Mgmt Area: Menominee-Marquette
 YOE: 2025
 Acres: 751.1 GIS Calculated
 Examiner: Dan Racine
 Map Revised: 6/26/2023
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- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
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- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- G Gate
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range
- Vernal Pool



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unnever-Aged	Total
Aspen	0	15	68	59	22	59	0	0	0	0	0	0	0	0	0	0	0	0	223
Cedar	0	0	0	0	0	0	0	0	0	0	0	8	199	0	0	0	0	0	207
Herbaceous Openland	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Low-Density Trees	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Aspen/Balsam Poplar	0	36	0	37	7	0	0	0	0	0	0	0	0	0	0	0	0	0	80
Lowland Deciduous	0	30	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	37
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	9
Lowland Shrub	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Marsh	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Northern Hardwood	0	0	0	0	0	0	0	0	0	95	15	24	0	0	0	0	0	0	134
Upland Conifers	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	62	81	68	96	29	62	0	0	0	95	22	32	208	0	0	0	0	0	755



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 96

Total Compartment Acres: 751

Commercial Harvest - 86
 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	57	0	0	0	0	0	0	0	0	57
Northern Hardwood	0	29	0	0	0	0	0	0	0	29
Total	57	29	0	0	0	0	0	0	0	86

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	86	0	0	0	0	0	54	0	10	150
Next Step	0	0	0	0	0	0	86	0	0	86
Total	86	0	0	0	0	0	140	0	10	236



S t a n d	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:

7	33096007-NF	1.6	31022 - Warm Season Grass	Nonstocked		Unspec ified	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 <u>Specs:</u> 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</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 8 /30/2023</p>											
17	33096017-NF	1.6	31022 - Warm Season Grass	Nonstocked			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 <u>Specs:</u> 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</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											
33	33096033-Cut	5.7	4130 - Aspen	Poletimber Well	39	Unspec ified	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut: Cut all tree 3 inches and greater dbh. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, mixed conifer and deciduous species. <u>Regen:</u></p> <p><u>Other</u> No retention due to small stand size. The stand is in the 40 year old size class however this stand prescription will aid in creating an age <u>Comment:</u> class distribution of the aspen resource within the management area. The clearcut will have good aspen regeneration and be beneficial for wildlife habitat.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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34	33096034-NF	1.0	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw
Specs: 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.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 8 /30/2023

35	33096035-NF	4.2	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw
Specs: 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.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 8 /30/2023

38	33096038-cut	3.9	4130 - Aspen	Poletimber Well	40	Unspec ified	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clearcut: Cut all trees 3 inches and greater at dbh. Place the boundary line at the top of the hillside along the Friday Flooding.
Specs:

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

Acceptable Aspen, Mixed conifer and deciduous species.
Regen:

Other This stand was identified in the Regional State Forest plan as a potential treatment to harvest. The portion of this stand being harvested is older and mature timber compared to the remainder of the stand. The remainder of stand 38 will be retained to harvest when the timber has better merchantability. The harvest will aid in age class distribution of the aspen within the management area and create beneficial wildlife habitat. Expect good aspen regeneration and well beyond the green up requirements when the remaining portion of stand 38 is harvested.

Site Condition

Proposed Start Date: 10/1 /2024



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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39	33096039-Cut	23.6	4110 - Sugar Maple Association	Sawtimber Well	105	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Selection: Retain approximately 70 BA and favor to leave any minor component species. Create regeneration gaps and open up around any existing regeneration.
Specs:

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

Acceptable Northern Hardwood species.
Regen:

Other The prescription will improve the existing stand quality of the northern hardwoods. The attempt to create regeneration will aid to move the stand to an all aged structure and enhance structural diversity and promote the long term northern hardwood management for this stand.
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

42	33096042-Cut	5.7	4110 - Sugar Maple Association	Sawtimber Well	88	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Selection- Retain approximately 70 BA. Create regeneration gaps and open up around any existing regeneration.
Specs:

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

Acceptable Maple, other mixed northern hardwood species.
Regen:

Other The prescription will improve the existing stand quality of the northern hardwoods. The attempt to create regeneration will aid to move the stand to an all aged structure and enhance structural diversity and promote the long term northern hardwood management for this stand. Longer term regeneration will have to be addressed through optional silvicultural treatments and replanting to acceptable species.
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

47	33096047-NF	3.3	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others. Also sharecropping could be considered for this opening.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 8 /30/2023



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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
53 33096053-Cut	47.0	4134 - Aspen, Spruce/Fir	Poletimber Well	42	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut: Cut all trees 3 inches and greater. Leave retention of 3 to 10% of the stand determined at the time of sale preparation.</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 deciduous species.</p> <p><u>Regen:</u></p> <p><u>Other</u> This stand is in the 40 to 50 year age range. It was identified in the Regional plan as a potential treatment. The harvesting of this stand will aid in the creation of an even aged class distribution of the aspen resource. Expect good results of the clearcut prescription to fully regenerate to aspen and provide wildlife benefits of regenerating aspen. The retention will leave a legacy portion of this stand intact and further diversify habitat for wildlife benefit.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

Approved Treatments:

6 33096006.12_Monitor	23.3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	88	51-80	Monitoring	Natural Regen (Re-Inventory)	4112 - Maple, Beech, Cherry Association	Uneven-Aged	No
<p><u>Prescription</u> Unit 2 of the Rapid River hardwood sale. The hardwood was marked and the rest was cut.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any spp associated with Northern Hdwds and Fb Fs.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2032</p>										
15 33096015.11_Monitor	5.6	4110 - Sugar Maple Association	Sawtimber Well	93	51-80	Monitoring	Natural Regen (Re-Inventory)	4119 - Mixed Northern Hardwoods	Uneven-Aged	No
<p><u>Prescription</u> Monitor the regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any spp associated with Northern Hardwood timber type and Fb, Fs..</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2032</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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22	33096022.1_M onitor	8.2	4112 - Maple, Beech, Cherry Association	Poletimber Medium	88	51-80	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Uneven-Aged	No
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Prescription Monitor the regeneration following the End of Friday Harvest completed in 2022.

Specs:

Next Step

Treatments:

Acceptable Monitor the regeneration of the overstory species.

Regen:

Other Percent to Treat = 100%

Comment: Long term regeneration plan to monitor the success of the maple and mixed conifer species during the re-inventory cycle. If adequate regeneration does not exist, remove the existing overstory except any hemlock and plant to an acceptable species mix.

Site Condition

Proposed Start Date: 10/1 /2032

23	33096023-Monitor	4.6	4113 - R.Maple, Conifer	Poletimber Well	85	1-50	Monitoring	Natural Regen (Re-Inventory)	4113 - R.Maple, Conifer	Two-Aged	No
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Prescription Monitor the regeneration.

Specs:

Next Step

Treatments:

Acceptable Monitor the regeneration of existing overstory species.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2032

41	33096041.8_M onitor	8.9	622 - Lowland Shrub Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	No
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Prescription Monitor the regeneration during the re-inventory cycle following the End of Friday sale unit 4 completed in 2022.

Specs:

Within Payment Unit(s) 2, 4, and 10, all trees which meet minimum piece specifications in 2.2 Utilization are designated for cutting, except do not cut cedar, hemlock, and trees marked with green paint above and below stump height

Next Step

Treatments:

Acceptable Monitor the regeneration of overstory species.

Regen:

Other Percent to Treat = 100%

Comment: If adequate regeneration is not present during re-inventory monitoring, look to seed in the site with spruce.

Site Condition

Proposed Start Date: 10/1 /2032



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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
65 33096065.13_Monitor	3.7	4112 - Maple, Beech, Cherry Association	Poletimber Medium	90	81-110	Monitoring	Natural Regen (Re-Inventory)	4112 - Maple, Beech, Cherry Association	Uneven-Aged	No
<p><u>Prescription</u> Monitor the regeneration following the Rapid River Hardwood sale completed in 2019.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Rm, Cherry, Sm, BsWd, W.ash.or other associated Northern Hardwood spp.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u> Long term regeneration plan to monitor the regeneration during the re-inventory cycle. Combine a long term hardwood regeneration plan with stand 6 with optional silvicultural treatments and replant to an acceptable species mix.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2032</p>										

Total Treatment Acreage Proposed: 151.9

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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
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	6119 - Mixed Lowland Deciduous Forest	Sapling Medium	30.3	2	1-50	N/A	This stand was unit 1 of the Rapid River Hardwood sale. All trees cut except cedar, hemlock and green marked trees of maple and deciduous. Stand and treatment 1 and 4 were combined here to stand 1. Lot of blowdown of residual trees left from the harvest. Decent regeneration of maple stump sprouts. Some lower areas of cattails and raspberries, expect these areas to fill in with mixed conifer species over time. Stand could be considered two aged with residual trees from harvest.																																																																		
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2	6113 - Lowland Maple	Poletimber Medium	6.8	90	1-50	N/A	Drainage area. Most of the ash is dead now.																																																																		
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6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	23.4	88	51-80	N/A	This stand was unit 2 of the Rapid River Hardwood sale completed in 2021. The aspen, balsam fir and spruce were all cut and the hardwood was marked. Some stump sprouting maple with browse.																																																																		
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8	4130 - Aspen	Poletimber Well	5.7	30	Immature	N/A	Some larger timber here.																																																																		
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10	4110 - Sugar Maple Association	Poletimber Well	7.4	88	81-110	N/A	some scattered cedar, hemlock and yellow birch along transitional edge.																																										
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11	6120 - Lowland Cedar	Poletimber Poor	30.3	118		N/A	Scattered pockets of cedar. Regeneration is a mix of P, ash, R maple, balsam and spruce. Northeast corner has a 2 -3 acre patch of cedar,																																										
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13	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	2.6	40	51-80	N/A																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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14 6111 - Lowland Balsam Poplar Poletimber Well 7.1 39 Unspecified N/A Balm stand with 5 to 7 inch diameters and 1 to 2 stick trees.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	10	Pole/Sapling	5		Balsam Fir	High	Variable	Sapling
Balsam Poplar	60	Pole/Sapling	6	39				
Paper Birch	10	Pole/Sapling	5					
Balsam Fir	20	Pole/Sapling	6					

15 4110 - Sugar Maple Association Sawtimber Well 10.8 93 51-80 N/A This stand was cut under the Rapid River hardwood scale completed in 21.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Log	12		Sugar Maple	Medium	Variable	Sapling
Sugar Maple	85	Log/Pole	10	93	Balsam Fir	Low	10 - 20 feet	Sapling
Basswood	3	Log	12		Ironwood	Low	10 - 20 feet	Sapling
Balsam Fir	5	Pole	8					
White Spruce	3	Pole	9					
Black Ash	2	Pole	8					

16 6120 - Lowland Cedar Poletimber Well 7.5 108 Unspecified N/A This stand was cut under contract 14-95-01, cut in 1999. The ash is mainly dead. Very wet site in places with high amounts of tag alder.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	15	Pole	8		Tag Alder	Medium	10 - 20 feet	Tall Shrub
Northern White Cedar	55	Pole	9	108	Balsam Fir	Medium	< 5 feet	Sapling
Balsam Poplar	30	Sapling	3	24	Black Ash	Medium	Variable	Sapling

17 31022 - Warm Season Grass Nonstocked 1.6 No

18 4119 - Mixed Northern Hardwoods Sawtimber Well 9.1 85 81-110 N/A Treated in 1998. Center portion has some balm, cedar and ash with more sugar maple in pockets to the east and west with red maple mixed in.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole	8		Balsam Fir	Medium	5 - 10 feet	Sapling
Sugar Maple	35	Log/Pole	10		Quaking Aspen	Low	10 - 20 feet	Sapling
Red Maple	40	Log/Pole	10	85				
Paper Birch	5	Pole	9					
Basswood	5	Pole	9					
Black Ash	5	Pole	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
19	6112 - Lowland Aspen	Sapling Well	25.4	25	Immature	N/A	Good regeneration of balm, ash and red maple with some yellow birch and paper birch. East side more ash than balm, west side more balm than other spp. Cedar is heavy in some areas and light in others. Balsam fir and other minor component species																																																										
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21	6120 - Lowland Cedar	Poletimber Medium	6.2	116	Unspecified	N/A	Some hemlock and black spruce. This stand was cut under the Friday Mix sale. Cedar was left with a few other minor species.																																																										
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22	4112 - Maple, Beech, Cherry Association	Poletimber Medium	8.6	88	51-80	N/A	Unit 1 of the End of Friday sale. Completed in 2022. No blue line along the west side red line was used off the property line.																																																										
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24	330 - Low-Density Trees	Nonstocked	1.2			Managed Opening	2015: oaks and crabapples planted 2016: encroaching trees were removed via brushmowing																																																			
26	6120 - Lowland Cedar	Poletimber Well	26.4	116		N/A																																																				
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30	6120 - Lowland Cedar	Poletimber Medium	16.9	116	51-80	N/A	This stand was part of unit 3 of the Friday mix sale. Pockets of black ash regeneration, tag alder, and cattails. Not much regeneration, mostly cedar left and pockets of regeneration in places.																																																			
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31	6233 - Wet Meadow	Nonstocked	22.3			No	Flooded out area expanding. A few trees on the northeast finger.																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
33	4130 - Aspen	Poletimber Well	5.7	39	Unspecified	N/A	Aspen stand with a mix of quaking and big tooth. Some hazel brush and spruce and fir in the understory.																																																		
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34	310 - Herbaceous Openland	Nonstocked	1.0			No	Opening along the Friday Flooding.																																																		
35	310 - Herbaceous Openland	Nonstocked	4.2			Managed Opening	2014: oaks and crabapples planted and sheltered 2015: seeded with clover																																																		
36	6220 - Alder/willow	Nonstocked	11.5			No																																																			
37	6120 - Lowland Cedar	Poletimber Well	15.0	116		N/A																																																			
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38	4130 - Aspen	Poletimber Well	11.9	40	Unspecified	N/A	West side of road has small 2-3 acre patch of mature timber that should be cut now. The rest of the stand is smaller A6 stand that will be ready in 1 to 2 treatment periods. Small part of stand was cut in 2010 and is regenerating nicely. Small piece on the south end is overmature, best to harvest this when the remaining portion of stand 38 is harvested due to creek running between stand 42 and 38.																																																		
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39	4110 - Sugar Maple Association	Sawtimber Well	23.6	105	111-140	N/A	Treated in 2009, Stinky Pig Sale.																																																		
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40	4130 - Aspen	Sapling Well	61.7	13	Immature	N/A	Sapling aspen stand.																																																							
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41	622 - Lowland Shrub	Nonstocked	9.5	0	Unspecified	613 - Lowland Mixed Forest	This stand was cut under the End of Friday sale completed in 2022. Recently cut and too early for adequate regeneration, cedar left and some areas are high enough to be 25 to 50% canopy closure vs 0-25. Monitor the next inventory cycle to give enough time for adequate regeneration of expected mixed conifers and ash and other mixed deciduous species.																																																							
42	4110 - Sugar Maple Association	Sawtimber Well	5.7	88	81-110	N/A	Cut in 2009. Friday Flooding Sale.																																																							
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43	6120 - Lowland Cedar	Poletimber Well	39.1	116		N/A	Small patch NW corner just south of road is high ground which contains A, Wb, Fb, Fs. Lost most of the Fb, Fs. Only about an acre. not worth cutting. As you move to SW it gets heavy to cedar with dead balm. As you move to the east it's C, tag alder, and ash becomes more of a component.																																																							
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47	310 - Herbaceous Openland	Nonstocked	3.3			Managed Opening	2014: oaks planted 2015: seeded with clover (contract) 2016: seeded to buckwheat and clover (contract)																																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
48	6112 - Lowland Aspen	Sapling Medium	29.0	3	Immature	N/A	20-30 BA of mixed spp were left, primarily red maple and cedar was left. Unit 6 of the Friday Mix sale. Lowland upland ridge mixed site.																																																				
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49	6111 - Lowland Balsam Poplar	Sapling Poor	6.9	3	Immature	N/A	Unit 5 of the Friday mix sale. Cattails and cedar poles with some black ash poles. This site is still filling in post harvest.																																																				
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52	4130 - Aspen	Poletimber Well	10.2	33		N/A	treated in 1990. Some residual maple was left scattered throughout stand.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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53 4134 - Aspen, Spruce/Fir Poletimber Well 47.0 42 Unspecified N/A Aspen stand with balsam fir. Averaging about 9 inches with some larger diameters.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	65	Pole	9	42	Hazelnut (Beaked)	Medium	5 - 10 feet	Tall Shrub
Balsam Poplar	10	Pole	9		Balsam Fir	Medium	5 - 10 feet	Sapling
White Spruce	10	Pole	8		Ironwood	Low	5 - 10 feet	Sapling
Balsam Fir	10	Pole	8					
Red Maple	5	Pole	8					

54 6132 - Mixed Lowland Forest with Cedar Poletimber Well 8.8 115 Unspecified N/A Last field checked in 2013. Ash drainage, wet ground.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	50	Pole	7	115	Balsam Fir	Medium	10 - 20 feet	Sapling
Black Spruce	5	Pole	8		Black Ash	High	10 - 20 feet	Sapling
Black Ash	40	Pole	7	94	Black Spruce	Medium	10 - 20 feet	Sapling
Yellow Birch	5	Pole	8					

65 4112 - Maple, Beech, Cherry Association Poletimber Medium 4.0 90 81-110 N/A This stand was unit 3 of the Rapid River Hardwood sale completed in 2019. The two pieces were unit 3 together.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	10	Pole	7		Red Maple	Low	< 5 feet	Sapling
Sugar Maple	30	Pole	8		Balsam Fir	Low	< 5 feet	Sapling
Red Maple	60	Pole	8	90				