



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33093

Entry Year 2022

Acreage: 1,632

County Delta

Management Area: Dead Horse Moraines

Revision Date: 2020-07-22

Stand Examiner: Dan Racine

Legal Description:

T43N R22W Sections 3, 10, and 15

Identified Planning Goals:

This compartment is comprised of approximately 40% percent upland cover types with the majority of these cover types classified as northern hardwood and aspen stands. The lowland cover types comprise approximately 58% percent of the compartment with the majority of these classified as cedar and lowland deciduous stands. The forested treatments prescribed in this compartment are focused in the upland cover types with 110 acres of northern hardwoods prescribed for selection harvest. These harvests have resulted in regeneration of hardwood species in past treatments. A group of treatments that will require access through private property are aspen, mixed upland deciduous and one small tamarack stand designated for final harvest and regeneration of those cover types. This compartment has one of the experimental regeneration areas that will continue to be monitored for regeneration of northern hardwoods. Other non-forest openings exist in this compartment and some treatments may be conducted to promote these habitat benefits.

Soil and topography:

Topography ranges from level to very gently rolling. Major soil series include Dawson and Greenwood peats; Charlevoix sandy loam; Cathro and Tacoosh mucks; Trenary fine sandy loam; Ensley and Angelica soils; Carbondale, Lupton, and Rifle soils; Longrie sandy loam.

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

This compartment is part of a block of state land that is about 8 miles long and 4 miles wide in Northern Delta County. The state land also extends into Alger County about four miles, which is part of the Gwinn Forest Management Unit. Ownership other than state around this compartment is mostly small non industrial private forest with several blocks of corporate forest lands.

Unique Natural Features:

None

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

The northern region of this compartment contains an unnamed stream which serves as tributary to Werners Creek. The unnamed tributary is designated a Type 1 trout stream less than 50' width. A 300' buffer is recommended for the unnamed waterbody in riparian areas susceptible to aspen regeneration. For areas not susceptible to aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

About half of this compartment acreage is cedar swamp and the other half is aspen and northern hardwood-dominated upland. The most notable treatment proposed this decade is selection harvest in several northern hardwood stands. Hardwoods have regenerated very well in this compartment in the past, so these treatments will be good for wildlife if regeneration becomes established in the canopy gaps and all representative tree species are maintained or propagated. Stands that were formerly in Special Conservation Area status are recommended for removal because they are entirely lowland conifer types that are not unusual and do not provide unique benefits.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium textured glacial till. There is minor relief in the compartment. There is insufficient

data to determine the glacial drift thickness. The Ordovician Trenton Formation underlies the glacial drift. The Trenton is quarried for stone/dolomite near Escanaba. A gravel pit is located two miles to the south of the compartment. There appears to be good gravel potential in the compartment.

Vehicle Access:

Access to this compartment by vehicle is very good through the majority of the compartment. However access to the compartment by vehicle is through private property.

Survey Needs:

According to records corners will be needed to be placed on the SW, NW and NE points of the SESW 40. One corner for the center of section 10. One corner for the east 1/4 of section 15.

Recreational Facilities and Opportunities:

There are no recreational facilities in this compartment. There are hunting opportunities within this compartment.

Fire Protection:

Most of this compartment is either lowland or northern hardwoods/aspen. The risk of wildfire in this area is low. Access is very good once past the gated private property. There is an abundance of water nearby this compartment.

Additional Compartment Information:

Several stands were removed from Special Conservation Area status.

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 Nonforested)
- ◆ 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: 93

County: Delta

Unit: Escanaba

Mgmt Area: Dead Horse Moraines

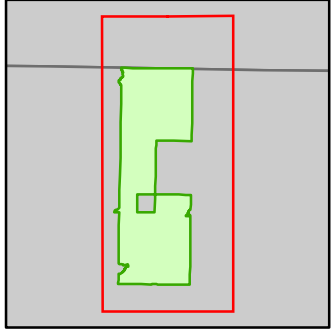
YOE: 2022

Acres: 1,632 GIS Calculated

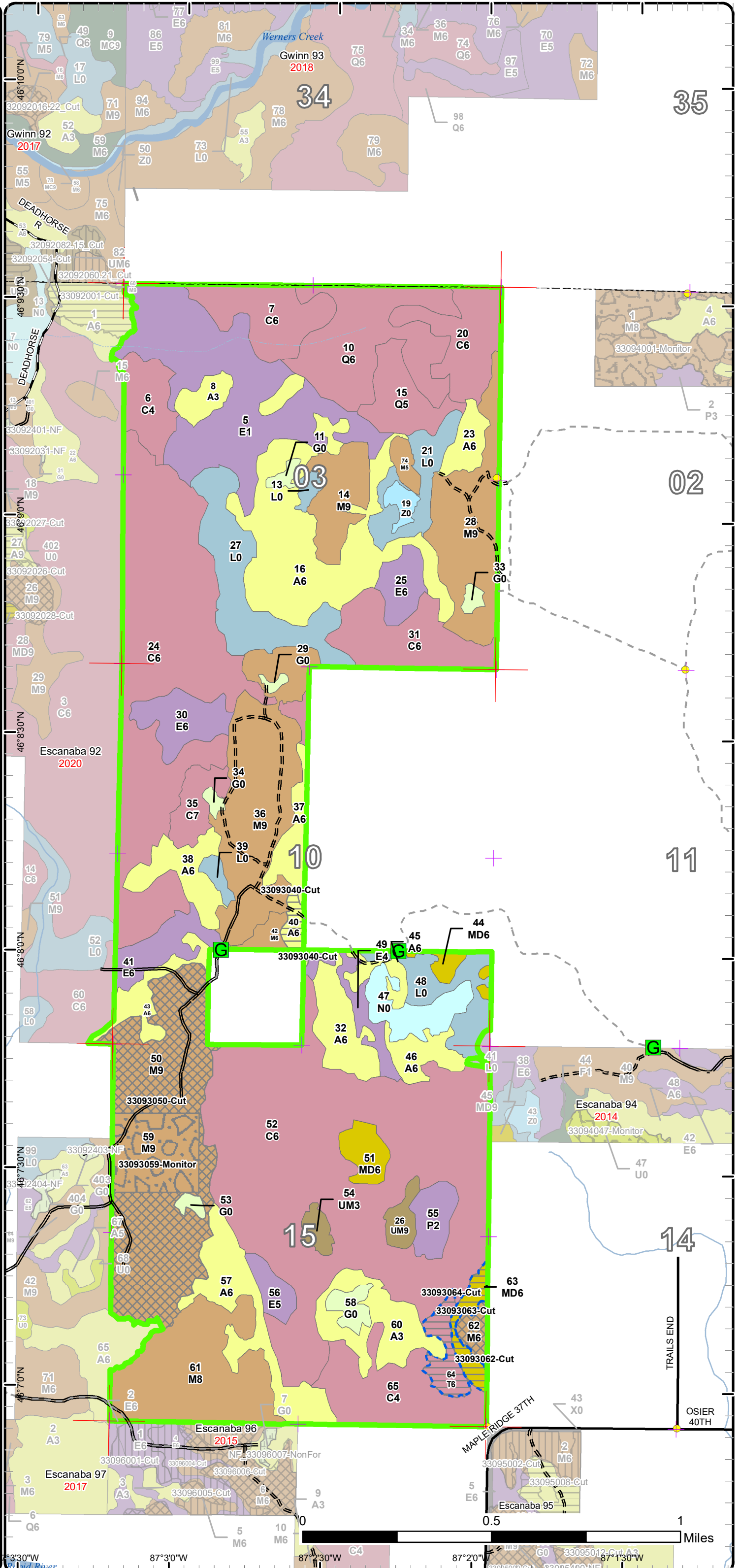
Examiner: Dan Racine

Map Revised: 9/8/2020

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
- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- G Gate
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



Stand Boundary Map

Compartment: 93

County: Delta

Unit: Escanaba

Mgmt Area: Dead Horse Moraines

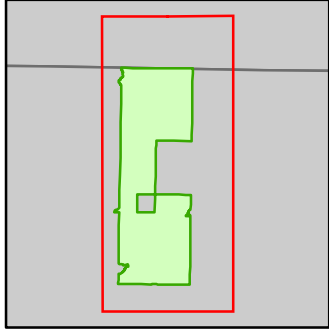
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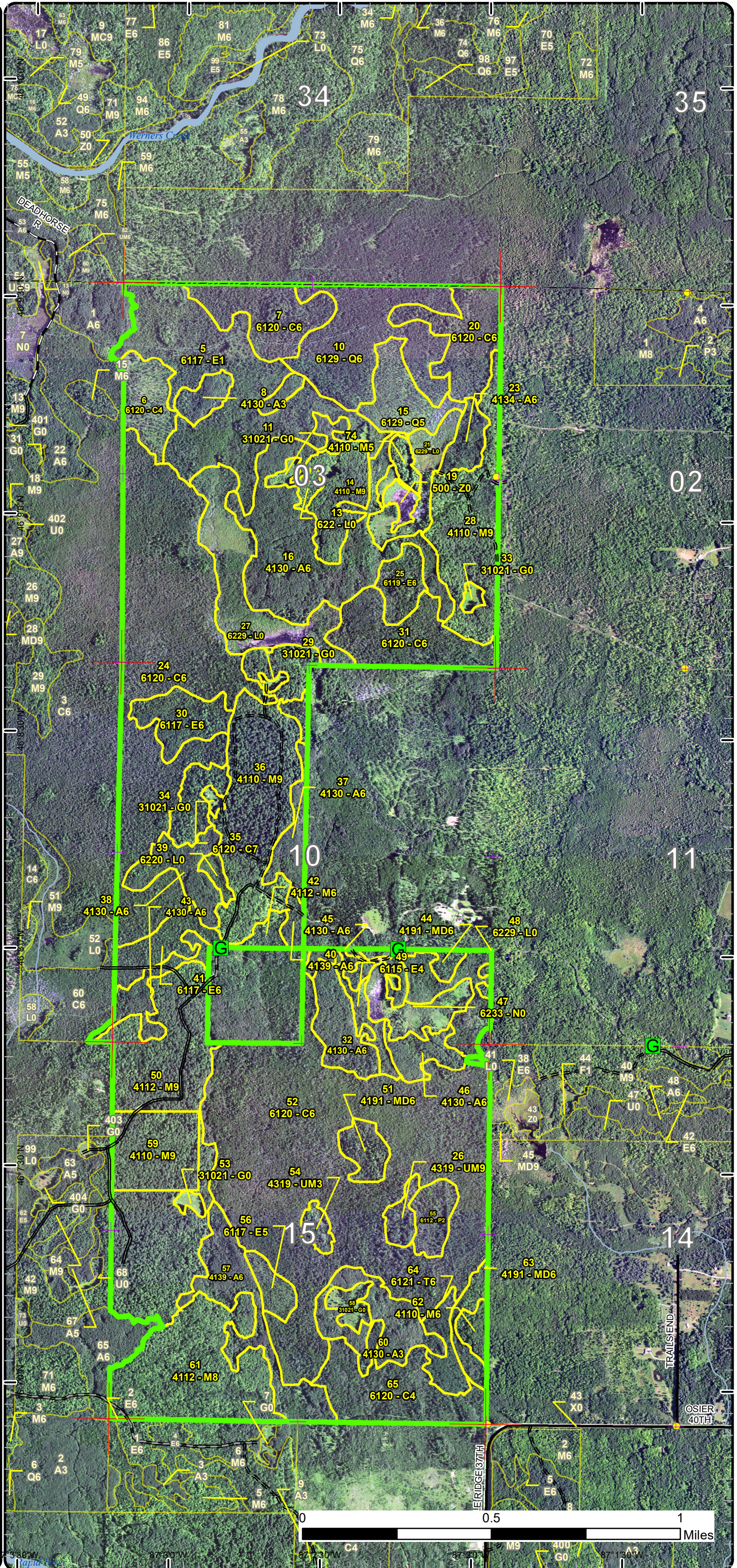
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Special Conservation Areas

Compartment: 93

County: Delta

Unit: Escanaba

Mgmt Area: Dead Horse Moraines

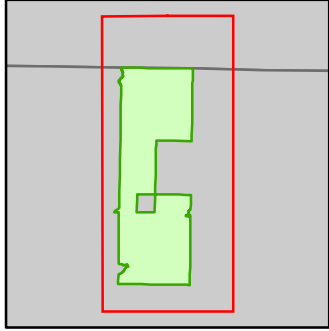
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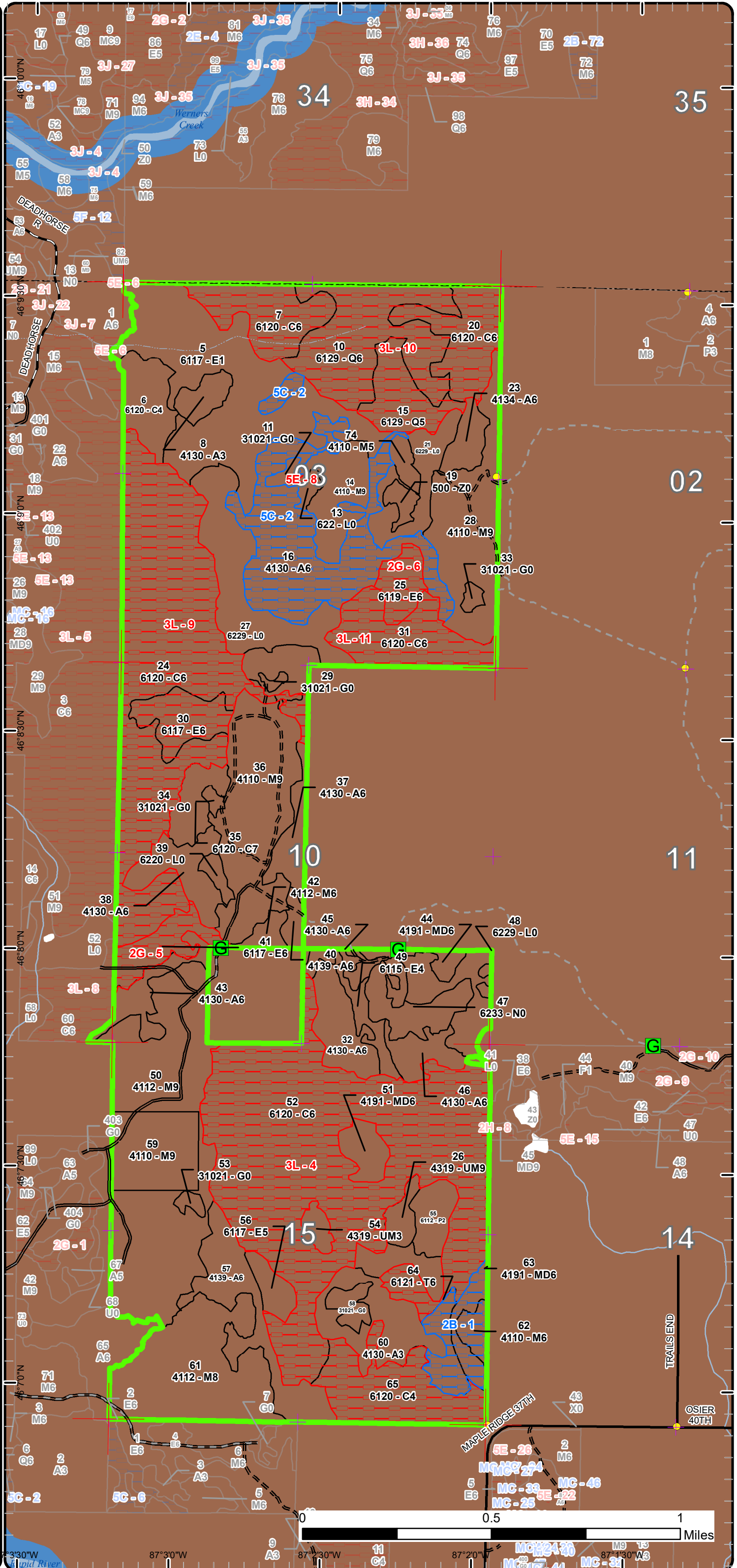
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- Perennial River
- Lakes and Rivers
- G Gate
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	8	143	9	88	0	0	0	0	0	0	0	0	0	0	0	248
Cedar	0	0	0	0	0	0	0	0	0	0	13	19	71	196	258	0	30	0	587
Herbaceous Openland	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Aspen/Balsam Poplar	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Conifers	0	0	0	0	0	0	0	0	0	58	0	0	21	0	0	0	0	0	79
Lowland Deciduous	0	0	0	0	0	0	0	115	19	12	17	0	0	0	0	0	0	0	163
Lowland Shrub	91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	91
Marsh	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Mixed Upland Deciduous	0	0	0	10	0	0	0	0	5	9	0	0	0	0	0	0	0	0	24
Northern Hardwood	0	0	0	0	0	0	0	0	0	290	78	0	0	0	0	0	0	0	368
Tamarack	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	10
Upland Mixed Forest	0	0	0	5	0	0	7	0	0	0	0	0	0	0	0	0	0	0	11
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	128	0	0	35	143	9	95	115	24	369	119	19	92	196	258	0	30	0	1630



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 93

Total Compartment Acres: 1,632

Commercial Harvest - 109
 Harvests with Site Condition - 25
 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	5	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	9	0	0	0	0	0	0	0	0	9
Northern Hardwood	0	110	0	0	0	0	0	0	0	110
Tamarack	11	0	0	0	0	0	0	0	0	11
Total	24	110	0	0	0	0	0	0	0	134

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	134	0	0	0	0	0	31	0	0	165
Next Step	0	0	0	0	0	0	134	0	0	134
Total	134	0	0	0	0	0	165	0	0	299



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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:

40	33093040-Cut	5.0	4139 - Aspen, Mixed Deciduous	Poletimber Well	51		Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clearcut: Cut all trees.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of the overstory species.

Regen:

Other This stand is recommended to be cut in the winter months or certainly dry summer period.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

50	33093050-Cut	103.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	83	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Selection harvest, delineating out the experimental treatment area. This stand will be marked to 70 ba and marking trees heavier around the regeneration pockets and creating gaps to open up areas with existing regeneration. Harvest in the winter months due to landowner concerns and proximity to winter deer range.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of the northern hardwood species present within the stand.

Regen:

Other The experimental treatment had gaps and 60-90+ basal area for plots. Slash pockets were left. Stand 50 has a decent amount of regeneration in the stand in many places. Consider the protect the regeneration specification and necessity to operate around the regeneration pockets. This stand will be lower than the 70 BA residual in areas of the stand that have the existing regeneration present.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

59	33093059-Monitor	30.7	4110 - Sugar Maple Association	Sawtimber Well	83	51-80	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Monitor the regeneration of this stand through the next inventory cycle for success of regeneration.

Specs:

Next Step

Treatments:

Acceptable Mix of Northern Hardwood species within the stand.

Regen:

Other This stand is a part of the experimental hardwood regeneration survey. Regeneration surveys will be done and compiled with the research study.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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
62	33093062-Cut	5.8	4110 - Sugar Maple Association	Poletimber Well	85	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Selection harvest; harvest to around 70 BA and create regeneration gaps. Favor to leave minor component species. Dont mark any <u>Specs:</u> hemlock.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of the northern hardwood species within the stand. <u>Regen:</u></p> <p><u>Other</u> This stand is limited by private access. 120BA,120,120 for the plots. <u>Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
63	33093063-Cut	8.9	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	85	51-80	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut: Cut all trees here except do not cut any hemlock if found within the stand. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of the overstory species. <u>Regen:</u></p> <p><u>Other</u> There is 5% cedar in the stand. The surrounding stand is a large cedar complex stand. This stand will provide an age class distribution <u>Comment:</u> within the large cedar complex.</p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
64	33093064-Cut	10.5	6121 - Tamarack	Poletimber Well	91	51-80	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with reserves: Leave a retention strip of retention/seed trees along the western boundary of the stand to capture some seed trees. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of the overstory species. <u>Regen:</u></p> <p><u>Other</u> Some cedar may exist here but surrounding this stand is a large cedar complex stand and the cedar within the stand is not good quality. <u>Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

Total Treatment 164.6
Acreage Proposed:

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Racine : Examiner

Compartment: 93
Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	2B	5C	2G	3L	5E
		With Condition	Not Available						
248	166	83	0	Aspen		83	0	0	
587	43	0	544	Cedar				544	
16	16	0	0	Herbaceous Openland					
12	12	0	0	Lowland Aspen/Balsam Poplar					
79	0	0	79	Lowland Conifers				79	
163	115	0	48	Lowland Deciduous			29	19	
90	90	0	0	Lowland Shrub					0
17	17	0	0	Marsh					
24	15	9	0	Mixed Upland Deciduous	9			0	
368	362	6	1	Northern Hardwood	6			1	
11	0	10	0	Tamarack	10			0	
12	12	0	0	Upland Mixed Forest				0	
4	4	0	0	Water					
1,632	852	108	672	Total Forested Acres	25	83	29	643	0
	52%	7%	41%	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	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The landowner has not been contacted for access to this area. The landowner to the east is the only feasible way to access this stand.							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	83	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Harvest when stand 28 and stand 23 are ready for harvest.							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Racine : Examiner

Compartment: 93
Year of Entry: 2022

4	Unavailable	3L: Other wildlife concerns	290	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3L: Other wildlife concerns	178	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3L: Other wildlife concerns	138	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Area with cedar and difficult access and poor quality timber.							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Racine : Examiner

Compartment: 93
Year of Entry: 2022

11	Unavailable	3L: Other wildlife concerns	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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	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																																														
5	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Poor	96.2	68		N/A	mix of non forest trees and shrubs and some forest with an upland ridge in the middle. Black ash areas and smaller diameter conifer. I did not field check this stand this year of entry due to "stay home stay safe directive".																																														
6	6120 - Lowland Cedar	Poletimber Poor	18.9	101		N/A	I did not field check this stand this year of entry due to "stay home stay safe directive". TS Update=> This stand was cut under the 93 North Deadhorse sale completed in 2014. Access was from compartment 92 south of the drainage.																																														
<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>Black Spruce</td> <td>10</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>60</td> <td>Pole</td> <td>8</td> <td>101</td> </tr> <tr> <td>Tamarack</td> <td>30</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black Spruce	10	Pole	7		Northern White Cedar	60	Pole	8	101	Tamarack	30	Pole	8		<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>Tamarack</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Deciduous Shrubs</td> <td>Low</td> <td>10 - 20 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tamarack	Low	5 - 10 feet	Sapling	Deciduous Shrubs	Low	10 - 20 feet	Tall Shrub																		
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7	6120 - Lowland Cedar	Poletimber Well	29.8	150	Unspecified	N/A	Poor quality cedar stand. I did not field check this stand this year of entry due to "stay home stay safe directive".																																														
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8	4130 - Aspen	Sapling Well	8.0	27		N/A	Upland island harvested in 1995. I did not field check this stand this year of entry due to "stay home stay safe directive".																																														
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10	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	57.7	85	Unspecified	N/A	Difficult access.																																														
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11	31021 - Cool Season Grass	Nonstocked	2.5			Managed Opening	Did not field check this year of entry due to "stay home stay safe order". This opening was once a wildlife food plot, with a mixture of cool summer grasses (brome, timothy), clover, and birdsfoot trefoil planted. Last mowed in 1999. Trefoil is still present with cool summer grasses.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
13	622 - Lowland Shrub	Nonstocked	2.9	0	Unspecified	No	This stand was cut under the Home Center Hardwoods sale. There are a decent amount of red maple seedling coming from stump origin. Smaller diameter spruce and balsam fir mostly balsam fir it appears that were saplings left post harvest. Currently not fully regenerated yet but for future there are several aspen along the edge from stand 14 harvest and low sphagnum moss areas should regenerate to lowland conifer with maple balm and balsam fir in the higher ground areas.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Northern White Cedar	Low	>20 feet	Pole	
14	4110 - Sugar Maple Association	Sawtimber Well	22.5	85	51-80	N/A	Cut under the Home Center hardwood sale. Lot of seedlings under 3 feet. Maple, ash, aspen.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Sugar Maple	90	Log/Pole	10	85
15	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	21.1	113	Unspecified	N/A	I did not field check this stand this year of entry due to the "stay home stay safe order". poor quality lowland conifer stand.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Balsam Fir	Low	< 5 feet	Sapling	
16	4130 - Aspen	Poletimber Well	82.8	52	Unspecified	N/A	This stand has variable sizes with the north end being smaller. Variable ages. Stand is holding up and harvest with stand 28, 23 and likely 14. Access across stand 21 is beaver flooding that presents difficult access. Access through stand 28 may be the best option in the winter months.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	10	Pole	6	
19	500 - Water	Nonstocked	4.3			No	I did not field check this stand this year of entry due to the "stay home stay safe order". Old beaver flooding with water. Sedges would dominate ground cover. Lots of dead trees in this flooding.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Sugar Maple	Medium	10 - 20 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
20	6120 - Lowland Cedar	Poletimber Well	29.4	113	Unspecified	N/A	I did not field check this stand this year of entry due to the "stay home stay safe order".																																																				
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21	6229 - Mixed lowland shrub	Nonstocked	18.7		Unspecified	No	Lowland brush, mixed lowland conifers and black ash through the center with low wetland areas surrounding.																																																				
23	4134 - Aspen, Spruce/Fir	Poletimber Well	9.4	42		N/A	I did not field check this stand this year of entry due to the "stay home stay safe order".																																																				
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24	6120 - Lowland Cedar	Poletimber Well	159.2	127		N/A																																																					
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25	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	12.2	84	Unspecified	N/A	A small patch of upland timber with cherry, aspen, paper birch, red maple, balsam fir. I did not field check this stand this year of entry due to the "stay home stay safe order".																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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26	4319 - Mixed Upland Forest	Sawtimber Well	6.5	55	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		10	Pole	9		Balsam Poplar	
Quaking Aspen		45	Log	11	55	Low	
Balsam Fir		35	Log/Pole	10		< 5 feet	
Northern White Cedar		5	Pole	9		Sapling	
Black Ash		5	Pole	8		Sapling	

27	6229 - Mixed lowland shrub	Nonstocked	43.6			No	Lowland brush, water, and black ash areas.
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28	4110 - Sugar Maple Association	Sawtimber Well	50.5	85	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		80	Log/Pole	11	85	Sugar Maple	
Red Maple		10	Log/Pole	10		Medium	
Basswood		10	Log/Pole	10		Variable	
						Sapling	
						Sapling	
						Sapling	
						Sapling	

North end is high to balsam fir under mix of sugar maple and red maple. Small acreage aspen and conifer inclusion along eastern boundary. Checked regeneration: Decent amount of sugar maple seedling much is stump sprouting. some ash, cherry and birch.

29	31021 - Cool Season Grass	Nonstocked	1.3			Managed Opening	This opening was once a wildlife food plot, with a mixture of cool summer grasses (brome, timothy), clover, and birdsfoot trefoil planted. Last mowed in 1999. Trefoil is still present with cool summer grasses.
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30	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	18.8	60		N/A	This is a ridge of ash, paper birch, spruce and fir with less cedar broken out from the larger cedar stand. The ash, birch and fir are running about 5-7 inches here. The age is an estimate.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		40	Pole	7	60	Balsam Fir	
Balsam Fir		15	Pole	6		Low	
White Spruce		5	Pole/Log	10		10 - 20 feet	
Northern White Cedar		10	Pole	9		Sapling	
Black Spruce		5	Pole	9		Sapling	
						Sapling	
						Sapling	
						Sapling	
						Sapling	

31	6120 - Lowland Cedar	Poletimber Well	36.5	127		N/A	I did not field check this stand this year of entry due to the "stay home stay safe order".
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		15	Pole	8		Balsam Poplar	
Balsam Poplar		13	Pole	8		Low	
White Spruce		10	Pole	9		10 - 20 feet	
Black Spruce		2	Pole	8		Sapling	
Northern White Cedar		60	Pole	8	127	Sapling	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
32	4130 - Aspen	Poletimber Well	20.3	39		N/A	Aspen stand with some balm. Running about 4-7 inches in diameter.																																																	
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33	31021 - Cool Season Grass	Nonstocked	2.1			Managed Opening	This opening was once planted into a wildlife mix. Last time that this opening was mowed was in 1999. Appears to be planted in a brome, timothy, clover, birdsfoot trefoil mix. Clover is gone, trefoil is low, and the opening is dominated by cool summer grasses.																																																	
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34	31021 - Cool Season Grass	Nonstocked	1.7			Managed Opening	This opening was once a wildlife food plot, with a mixture of cool summer grasses (brome, timothy), clover, and birdsfoot trefoil planted. Last mowed in 1999. Trefoil is still present with cool summer grasses.																																																	
35	6120 - Lowland Cedar	Sawtimber Poor	12.9	90	1-50	N/A	Residual species include pine cedar, hemlock and red maple Unit 5 of Newport Hardwood. This sale was completed in 2019 with heavy deer browsing on the red maple stump sprouts. The sugar maple and other taller red maple were already there.																																																	
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36	4110 - Sugar Maple Association	Sawtimber Well	78.4	90	81-110	N/A	Extremely high sugar maple regeneration especially the north end of this stand. Other species include black cherry and yellow birch and cedar moving to stand 32.																																																	
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37	4130 - Aspen	Poletimber Well	12.5	39		N/A	mix of 5 to 8 and 9 inch aspen and balm with a higher percentage of balm in some places.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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38	4130 - Aspen	Poletimber Well	18.4	39		N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling/Pole	4		Red Maple	Low	10 - 20 feet	Sapling
Quaking Aspen	80	Sapling/Pole	4	39	Balsam Fir	Low	10 - 20 feet	Sapling
Balsam Poplar	10	Sapling/Pole	4		Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub
					White Spruce	Low	Variable	Sapling

39	6220 - Alder/willow	Nonstocked	3.5			No	Remote call is tag alders.
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40	4139 - Aspen, Mixed Deciduous	Poletimber Well	5.0	51		N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	9		Red Maple	Low	10 - 20 feet	Sapling
Paper Birch	10	Pole	6		Balsam Fir	Low	5 - 10 feet	Sapling
Quaking Aspen	55	Pole	9	51				
Balsam Poplar	20	Pole	9					
White Spruce	5	Pole	9					

41	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	16.8	95	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sapling	6		Red Maple	Low	5 - 10 feet	Sapling
Paper Birch	20	Pole/Sapling	6		Paper Birch	Low	5 - 10 feet	Sapling
Balsam Fir	15	Pole/Sapling	5		Balsam Fir	Low	5 - 10 feet	Sapling
White Spruce	10	Log/Pole	10					
Northern White Cedar	15	Pole	9					
Black Ash	30	Pole	6	95				

42	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.1	85	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	70	Log/Pole	10	85	Sugar Maple	Low	5 - 10 feet	Sapling
Red Maple	30	Pole	9		Balsam Fir	Low	10 - 20 feet	Sapling
					Black Ash	Low	10 - 20 feet	Sapling
					Quaking Aspen	High	10 - 20 feet	Sapling

43	4130 - Aspen	Poletimber Well	12.9	39		N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole	7		Red Maple	Low	5 - 10 feet	Sapling
Quaking Aspen	70	Pole	7	39	Balsam Fir	Medium	Variable	Sapling
Balsam Poplar	5	Pole	7		Quaking Aspen	Medium	10 - 20 feet	Sapling
Balsam Fir	10	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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44	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	5.1	71	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Pole	8	
Paper Birch	10	Pole	7	
Quaking Aspen	5	Pole	7	
Balsam Poplar	15	Pole	9	
Balsam Fir	35	Pole	9	71
Black Ash	5	Pole	7	
Northern White Cedar	5	Pole	9	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling
Balsam Poplar	Low	5 - 10 feet	Sapling
Balsam Fir	Medium	5 - 10 feet	Sapling

45	4130 - Aspen	Poletimber Well	6.4	39		N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole	6	
Quaking Aspen	75	Pole	6	39
Balsam Poplar	5	Pole	6	
Balsam Fir	15	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	Sapling

46	4130 - Aspen	Poletimber Well	11.7	39		N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole	6	
Quaking Aspen	75	Pole	6	39
Balsam Poplar	5	Pole	6	
Balsam Fir	15	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	Sapling

47	6233 - Wet Meadow	Nonstocked	17.3			No	This stand is a mix of low wet marsh, tag alder veins and water area.
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48	6229 - Mixed lowland shrub	Nonstocked	21.7			No	There are a couple of islands similar to stand 44 with areas of red maple upland spruce/fir and aspen to the east side.
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49	6115 - Lowland Ash	Poletimber Poor	11.2	75	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole/Sapling	5	
Black Ash	75	Pole	5	75
Balsam Poplar	5	Pole/Sapling	4	
Balsam Fir	15	Pole/Sapling	5	

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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50	4112 - Maple, Beech, Cherry Association	Sawtimber Well	103.7	83	111-140	N/A	Other species include; hemlock, black spruce, ash, ironwood, white spruce, basswood. The south end of stand has a higher percentage of red maple.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	76	Log/Pole	12	83	Sugar Maple	Medium	Variable	Sapling
Red Maple	20	Log/Pole	12		Red Maple	Low	10 - 20 feet	Sapling
Yellow Birch	4	Pole	9		White Spruce	Low	< 5 feet	Sapling
					Ironwood	Low	5 - 10 feet	Sapling

51	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	10.1	26	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Pole/Sapling	5		Balsam Poplar	Low	< 5 feet	Sapling
Balsam Poplar	30	Pole/Sapling	5	26	Balsam Fir	Low	< 5 feet	Sapling
Balsam Fir	25	Pole/Sapling	5					
White Spruce	5	Sapling/Pole	4					
Black Ash	5	Sapling	3					
Red Maple	25	Pole/Sapling	5	26				

52	6120 - Lowland Cedar	Poletimber Well	258.3	132	111-140	N/A	Other minor component species here of aspen white spruce, yellow birch. Most of the upland ridges are mapped out with areas of tamarack to the east and some black ash areas as well.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	8		Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Fir	5	Pole	8		White Spruce	Low	5 - 10 feet	Sapling
Black Spruce	5	Pole	7		Black Ash	Low	10 - 20 feet	Sapling
Northern White Cedar	60	Pole	9	132				
Tamarack	10	Pole	7					
Black Ash	10	Pole	7					
Balsam Poplar	5	Pole	9					

53	31021 - Cool Season Grass	Nonstocked	2.2			Managed Opening	This opening was once a wildlife food plot, with a mixture of cool summer grasses (brome, timothy), clover, and birdsfoot trefoil planted. Last mowed in 1999. Trefoil is still present with cool summer grasses.
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54	4319 - Mixed Upland Forest	Sapling Well	5.0	28	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	20	Sapling	3		Balsam Fir	Medium	< 5 feet	Sapling
Balsam Poplar	25	Sapling	3		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	45	Sapling	3	28				
Paper Birch	10	Sapling/Pole	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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55 6112 - Lowland Aspen Sapling Medium 11.8 26 N/A Mixed stand of lowland and upland and lowland brush.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Sapling	3		Balsam Poplar	Low	< 5 feet	Sapling
Balsam Poplar	30	Sapling	3	26	Balsam Fir	Low	< 5 feet	Sapling
Balsam Fir	20	Sapling	3		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	10	Pole/Sapling	5					
Black Ash	5	Sapling/Pole	3					
Red Maple	15	Sapling	3					
Tamarack	10	Sapling/Pole	3					

56 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Medium 7.9 75 N/A poor quality

57 4139 - Aspen, Mixed Deciduous Poletimber Well 34.7 35 N/A This stand is a mix of aspen/balm with some conifers. The aspen is a much higher % in some places. There is some paper birch.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	48	Pole/Sapling	7	35	Yellow Birch	Low	5 - 10 feet	Sapling
Balsam Poplar	45	Pole/Sapling	7	35	Paper Birch	Low	5 - 10 feet	Sapling
White Spruce	2	Pole	9		Balsam Fir	Medium	5 - 10 feet	Sapling
Red Maple	5	Pole/Sapling	5		White Spruce	Low	5 - 10 feet	Sapling

58 31021 - Cool Season Grass Nonstocked 6.2 Managed Opening This opening was once a wildlife food plot. Seeded in 1993 by hand into a meadow mix. This opening is filling in with aspen, balsam fir and poplar.

59 4110 - Sugar Maple Association Sawtimber Well 30.7 83 51-80 N/A The experimental treatment area delineated out. The experimental treatment had gaps and 60-90+ basal area for plots. Other species include; hemlock, black spruce, ash, ironwood, white spruce, basswood.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	86	Log/Pole	12	83	Sugar Maple	Medium	Variable	Sapling
Red Maple	10	Log/Pole	12		Red Maple	Low	10 - 20 feet	Sapling
Yellow Birch	4	Pole	9		White Spruce	Low	< 5 feet	Sapling
					Ironwood	Low	5 - 10 feet	Sapling
					Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub

60 4130 - Aspen Sapling Well 26.2 33 N/A Aspen and balsam poplar surrounding the opening with about 4-6 inch diameters.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	60	Pole/Sapling	6	33	Balsam Fir	Low	< 5 feet	Sapling
Balsam Poplar	40	Pole/Sapling	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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61	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	66.9	85	51-80	N/A	Mix of sugar maple and red maple; other species include hemlock, black spruce, ironwood, white spruce. This stand was treated under the Newport Hardwood sale. Units were broken out with better quality hardwood selectively marked and ash/red maple areas with residual trees left between 0 to 50 ba. May be able to break out into a couple of stands but leave as one for now.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	58	Log/Pole	10	85	Sugar Maple	Low	< 5 feet	Sapling
Red Maple	25	Pole/Log	10		Red Maple	Medium	5 - 10 feet	Sapling
Yellow Birch	10	Log	12		Yellow Birch	Low	5 - 10 feet	Sapling
Basswood	2	Pole/Log	10		Balsam Fir	Medium	5 - 10 feet	Sapling

62	4110 - Sugar Maple Association	Poletimber Well	5.8	85	111-140	N/A	The north end goes into more balsam fir/cedar/balm. Decent Northern hardwood stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	80	Log/Pole	10	85	Sugar Maple	Low	Variable	Sapling
Red Maple	10	Log/Pole	10		Balsam Fir	Low	< 5 feet	Sapling
Balsam Fir	10	Pole	7					

63	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	8.9	85	51-80	N/A	The northern hardwood stand line was moved over and made smaller and the area of red maple moved over to this stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	35	Log/Pole	10	85	Quaking Aspen	Medium	5 - 10 feet	Sapling
Quaking Aspen	5	Pole	8		Balsam Poplar	Medium	5 - 10 feet	Sapling
Balsam Poplar	10	Pole	8		Balsam Fir	Low	< 5 feet	Sapling
Balsam Fir	25	Pole	8					
Northern White Cedar	5	Pole	9					
Tamarack	5	Sapling/Pole	5					
Black Ash	10	Pole	7					
Yellow Birch	5	Pole	9					

64	6121 - Tamarack	Poletimber Well	10.5	91	51-80	N/A	The cedar is probably about 15% of the stand but its mainly the understory under the tamarack.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole	7		Balsam Poplar	Low	5 - 10 feet	Sapling
Black Spruce	5	Pole	7		Balsam Fir	Low	5 - 10 feet	Sapling
Northern White Cedar	5	Pole	7					
Tamarack	75	Pole	9	91				
Red Maple	5	Pole	9					
Balsam Poplar	5	Pole	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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65	6120 - Lowland Cedar	Poletimber Poor	41.9	119		N/A	mixed stand with pockets of balm. Cedar mixed with tag alder black ash and tamarack areas with a mix of upland ridges of balsam fir and balm.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Pole	6	
Balsam Poplar	20	Pole	5	
Balsam Fir	10	Pole	8	
Northern White Cedar	50	Pole	6	119
Black Ash	5	Sapling/Pole	5	
Tamarack	5	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	Low	5 - 10 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
Tag Alder	High	5 - 10 feet	Tall Shrub
Black Ash	Low	5 - 10 feet	Sapling

74	4110 - Sugar Maple Association	Poletimber Medium	4.7	85	51-80	N/A	Stand was cut under the home center hardwood sale. North end is high to balsam fir under mix of sugar maple and red maple.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	80	Pole/Log	10	85
Red Maple	10	Pole	9	
Basswood	10	Pole/Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	10 - 20 feet	Sapling
Balsam Fir	Low	10 - 20 feet	Sapling
Ironwood	Low	10 - 20 feet	Sapling