



# Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33098

Entry Year 2021

Acreage: 919

County Delta

Management Area: Dead Horse Moraines

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**Revision Date:** 2019-06-20

**Stand Examiner:** Dan Racine

**Legal Description:**

T43N R22W Sections 20, 29 and 32

**Identified Planning Goals:**

This compartment consists of a mix of Lowland and Upland cover types. The majority of the lowland cover type is represented by Cedar. The other Lowland Forest community represented within this compartment is a lowland hardwood cover type consisting mostly of Red Maple and Black Ash with several other minor component species. The majority of the upland cover type is Aspen and Northern Hardwood stands with a mix of several minor component species. The stands proposed for harvest are designed to regenerate the existing overstory species and in the case of better quality hardwoods the improvement of the stand quality through selection harvest.

**Soil and topography:**

The topography within this compartment is nearly level. The major soils complexes within this compartment consist of Carbondale and Cathro soils within the lowland cover types and Trenary soils within the upland cover types.

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

This compartment is located within a 6 mile X 6 mile block of state forest land in north Delta County. This block of land contains private land consisting of secondary and primary residences.

**Unique Natural Features:**

N/A

**Archeological, Historical, and Cultural Features:**

N/A

**Special Management Designations or Considerations:**

N/A

**Watershed and Fisheries Considerations:**

NLMMU – Northern Lake Michigan Management Unit (Escanaba: John Bauman). This compartment is separated by a northern and southern section. The northern section of this compartment does not contain any permanent waterbodies. However, given recent high-water levels standing vernal pools or temporary waterbodies may exist. Therefore, buffers are recommended to protect these areas in accordance with Best Management Practices.

The Southern section of this compartment contains Elm Creek which serves as a tributary to the Rapid River. Elm Creek is designated a Type 1 trout stream less than 50' width. A 300' buffer is recommended for Elm Creek in riparian areas susceptible to aspen regeneration (specifically stands 38, 41, 42, 44, 45, 47, 51, and 58). 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:**

This compartment contains uplands of aspen and northern hardwoods and wetter areas dominated by lowland coniferous forest, predominately cedar. Most of the aspen is young and will be allowed to mature to rotation age, and much of the hardwood acreage was treated last decade. Prescriptions this entry year mainly involve hardwood treatments. Forest openings will be prescribed for maintenance/herbaceous planting as a possible project.

**Mineral Resource and Development Concerns and/or Restrictions**

Active sand/gravel pits are not in the vicinity, and sand & gravel potential appears to be limited within the compartment. There is good limestone within the compartment, as bedrock is near the surface here. However, much of the compartment appears to be covered by wetlands, which could inhibit potential development. There is no known history of mineral leasing within or around the compartment. There has been some sparse iron ore exploration. Test wells indicate that potential metallic mineral bearing formations are in the range of 600 feet deep here. This is likely too deep for economic

development of iron ore. Large-scale magnetic survey data indicate significant anomalies in the area, but the depth of any targets would be great and the quality of any potential metallic mineral deposits is unknown. There is no known potential for economic hydrocarbon production in the UP.

**Vehicle Access:**

Access off M-35 in the Northeast portion. County road 432 crosses this compartment. The north section can be reached by vehicle via the Engineer Road and the southern portion can be reached on the Section 32 Road. Both of these forest roads originate off County Road 432.

**Survey Needs:**

Survey corners will be needed for the treatments within this compartment.

**Recreational Facilities and Opportunities:**

No facilities. Hunting is the primary recreational use.

**Fire Protection:**

There are very little hazard fuels within this compartment. Vehicle access and water sources could pose a problem for fire protection.

**Additional Compartment Information:**

Additional information is available via the Department of Natural Resources website.

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

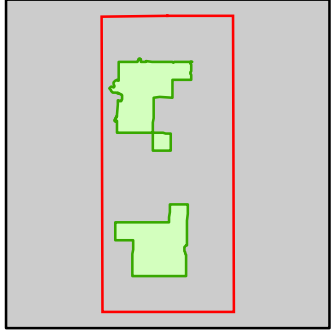
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

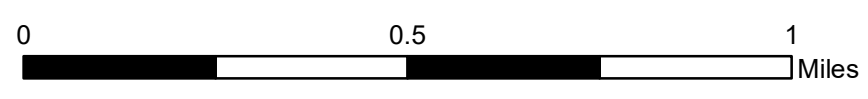
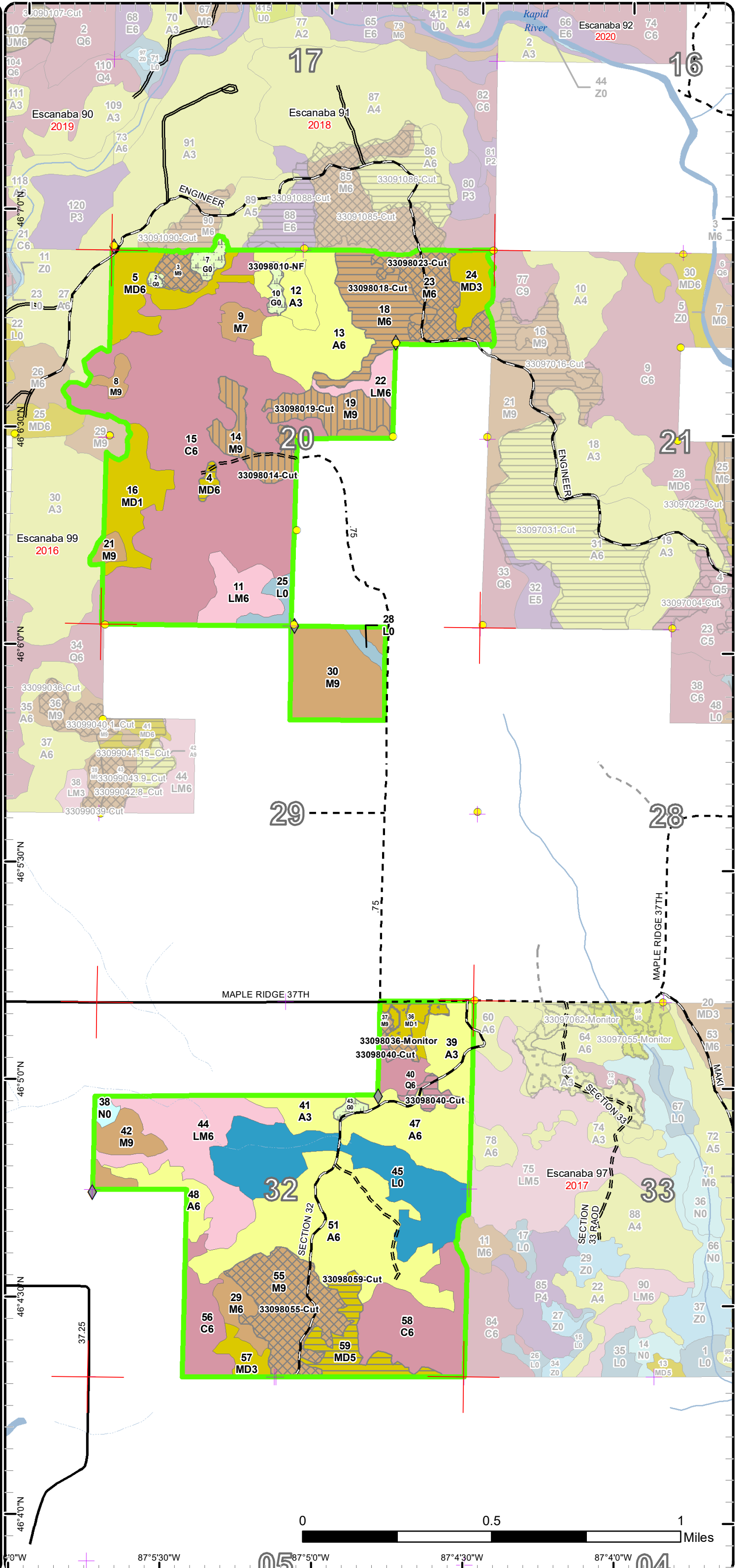
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 98  
 T43N-R23W Sec. 20,29,32  
 County: Delta  
 Unit: Escanaba  
 Mgmt Area: Dead Horse Moraines  
 YOE: 2021  
 Acres: 919 GIS Calculated  
 Examiner: Dan Racine  
 Map Revised: 11/14/2019  
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- = DNR - Secondary Forest Road
- = DNR - Forest Access Route
- Federal / State / County - Paved Road
- - Federal / State - Dirt / Gravel Road
- - Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland

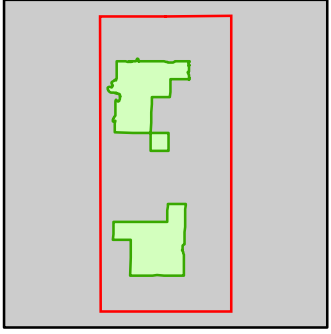


87°5'0"W 87°4'30"W 87°4'0"W

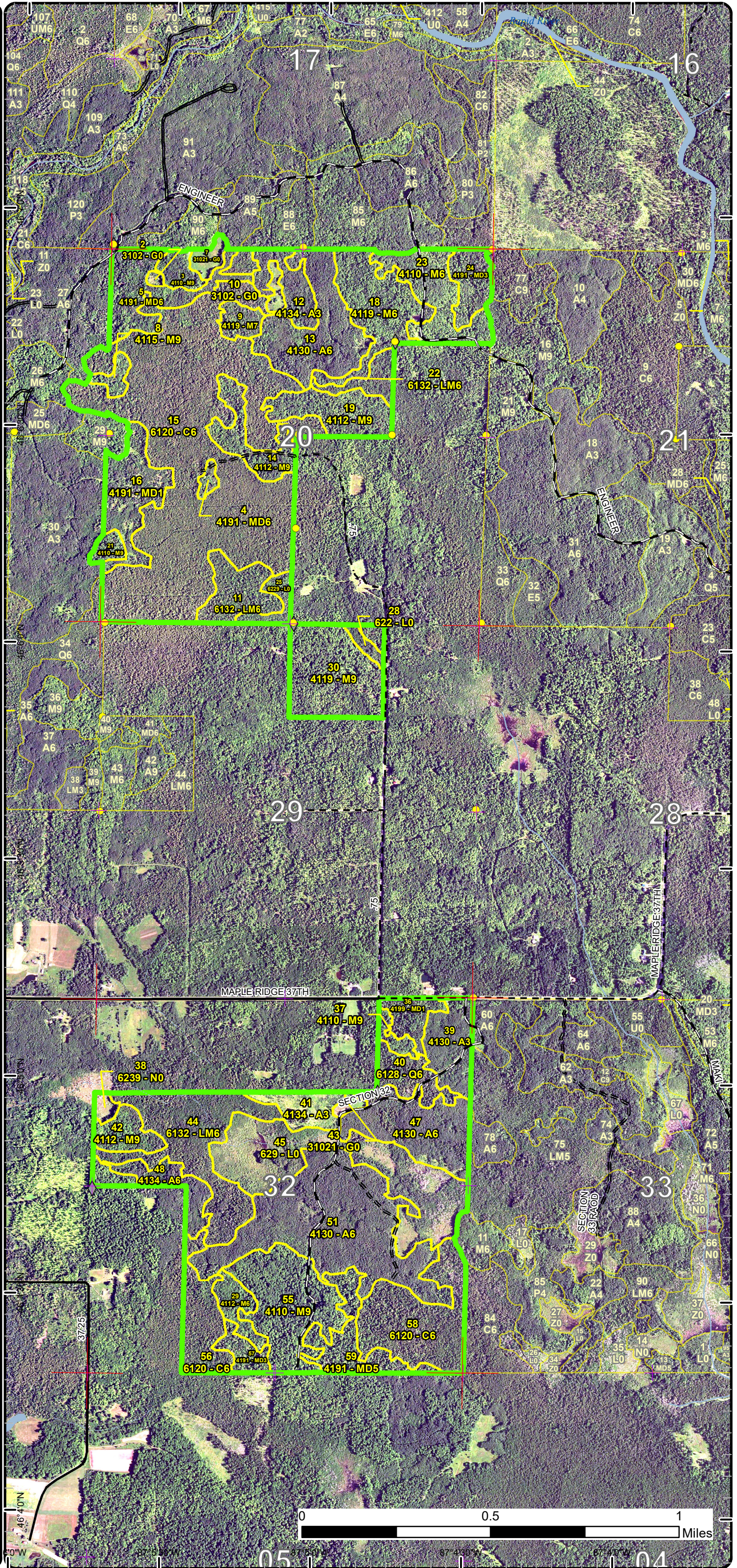


# Stand Boundary Map

Compartment: 98  
 T43N-R23W Sec. 20,29,32  
 County: Delta  
 Unit: Escanaba  
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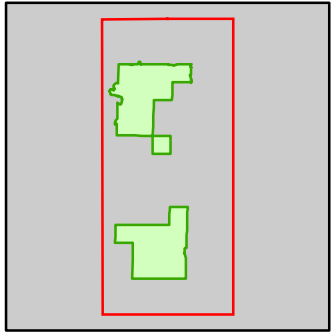
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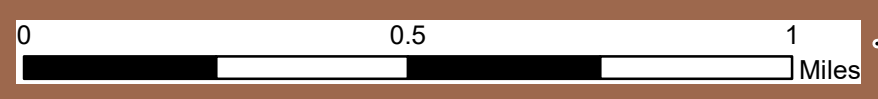
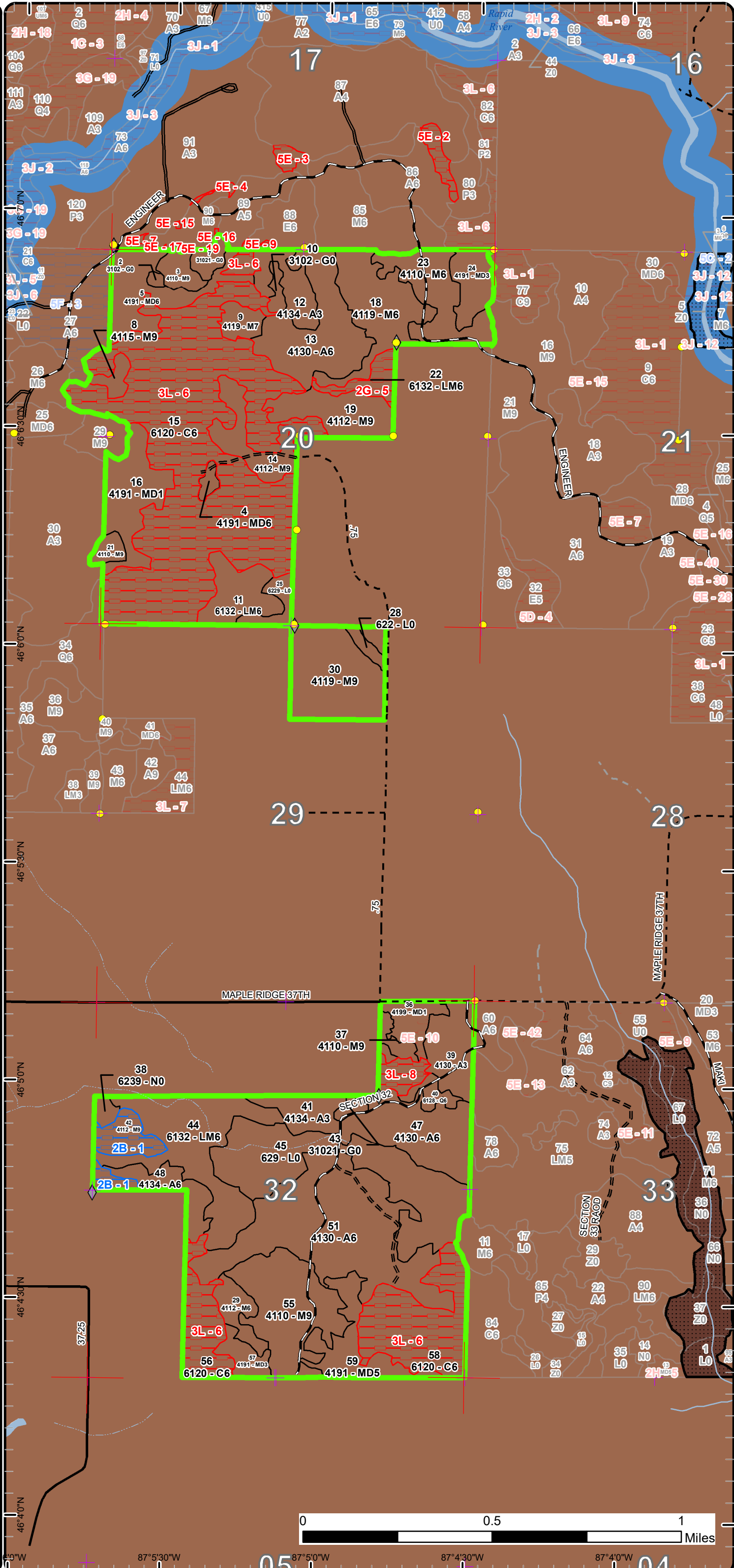


# Special Conservation Areas

Compartment: 98  
 T43N-R23W Sec. 20,29,32  
 County: Delta  
 Unit: Escanaba  
 Mgmt Area: Dead Horse Moraines  
 YOE: 2021  
 Acres: 919 GIS Calculated  
 Examiner: Dan Racine  
 Map Revised: 11/14/2019  
 Map Phase: Post-Review



- Miris Corners
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- Federal / State / County - Paved Road
- - Federal / State - Dirt / Gravel Road
- - Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 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
- Spring or Seep



46°4'0"N 87°5'30"W 87°5'0"W 87°4'30"W 87°4'0"W



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	11	18	24	113	36	0	0	0	0	0	0	0	0	0	0	0	0	202
Cedar	0	0	0	0	0	0	0	0	0	0	191	20	0	40	0	0	0	0	251
Herbaceous Openland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	12
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	70	0	0	0	0	0	0	0	70
Lowland Shrub	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67
Marsh	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	0	9	18	24	0	23	0	0	0	19	2	0	0	0	0	0	0	0	95
Northern Hardwood	0	0	0	0	0	0	0	0	4	170	37	0	0	0	0	0	0	0	211
<b>Total</b>	<b>80</b>	<b>20</b>	<b>36</b>	<b>48</b>	<b>113</b>	<b>59</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>189</b>	<b>300</b>	<b>32</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>921</b>





## Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 98

Total Compartment Acres: 919

Commercial Harvest - 161  
 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
Lowland Conifers	5	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	21	0	0	0	0	0	0	0	0	21
Northern Hardwood	28	74	0	0	33	0	0	0	0	135
<b>Total</b>	<b>55</b>	<b>74</b>	<b>0</b>	<b>0</b>	<b>33</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>161</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	161	0	0	0	0	0	6	0	10	177
Next Step	0	0	0	0	0	0	155	0	0	155
<b>Total</b>	<b>161</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>161</b>	<b>0</b>	<b>10</b>	<b>332</b>





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

<b>2</b>	<b>33098002-NF</b>	0.8	3102 - Grass	Nonstocked			Unspec ified	NonForestMgt	Other - Specify	3102 - Grass	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 /2020</p>											
<b>3</b>	<b>33098003.13_Cut</b>	6.0	4110 - Sugar Maple Association	Sawtimber Well	88	141-170		Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven-Aged No
<p><u>Prescription</u> Treatment=&gt; Single tree selection retaining approximately 80 BA. Create regeneration openings throughout the stand and retain species diversity. Improve existing stand quality and managage for sawlogs with the existing stand. <u>Specs:</u> Long term MO=&gt; Continue to move stand to uneven-aged management and create a regeneration mix of any northern hardwood species. Retention=&gt; Follow in-stand retention guide for maintaing wildlife trees and species diversity.</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> This stand consists of primarily sugar maple with a minor component of other hardwood species. All plots were consistent above 120 BA. Treat with stand 90 to the north in compartment 91 2018 YOЕ. Old next step comments: Natural regeneration of any northern hardwood species. Monitor the next treatment period for regeneration success.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2017</p>											
<b>4</b>	<b>33098004-Cut</b>	2.2	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	95	81-110		Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged No
<p><u>Prescription</u> Clearcut: leaving any cedar. This harvest provides food source habitat cut within wintering deer complex. <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> <u>Comment:</u> Access old winter road off stand 14. A few cedar may have to be cut to gain access but no cedar within the stand will be harvested.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											





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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<b>7</b>	<b>33098007-NF</b>	4.4	31021 - Cool Season Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3102 - Grass		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: 10/1 /2020

<b>10</b>	<b>33098010-NF</b>	2.8	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3102 - Grass		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: 10/1 /2020

<b>14</b>	<b>33098014-Cut</b>	15.5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	83	81-110	Harvest	Shelterwood	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Shelterwood: Retain 30-40BA leaving all cedar, potential of minor component species, and mix of the overstory. Releasing more of the  
Specs: understory with this harvest.

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

Acceptable Any mix of the overstory species.  
Regen:

Other Some pockets have more regeneration than others. Protect maple regeneration spec.  
Comment:

Site Condition  
Proposed Start Date: 10/1 /2020





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>18 33098018-Cut</b>	28.4	4119 - Mixed Northern Hardwoods	Poletimber Well	81	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Clearcut with retention: Cut all trees except cedar. Retention left around the pond and pockets of heavy regeneration. This treatment will provide a release of existing and create additional regeneration.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any mix of the overstory species.</p> <p><u>Other Comment:</u> Some areas have some pretty decent regeneration try to protect during harvest. Minor component of hemlock and leave this as well as some or all older yellow birch. Mainly a similar treatment to unit 5 of the sale to the north.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2020</p>										
<b>19 33098019-Cut</b>	17.4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	86	111-140	Harvest	Shelterwood	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Shelterwood: Retain about 30-40 BA leaving all cedar and a species mix of the minor component and overstory. Releasing what we have and trying to obtain higher regeneration here of the maple to get past the deer.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any mix of the overstory species.</p> <p><u>Other Comment:</u> May end up temporarily with raspberries and then maple regeneration. Several treatments and may be able to take off the overstory. Access to this stand was previously done through private landowner to south. Potential to come across old winter road through stand 22 but preferable to landowner to south.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2020</p>										
<b>23 33098023-Cut</b>	23.9	4110 - Sugar Maple Association	Poletimber Well	88	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Selection: Retain approximately 70-80 BA throughout leaving some of the minor component species. This harvest will improve the existing stand quality and create opportunities for additional northern hardwood regeneration.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any northern hardwood species mix currently within the stand.</p> <p><u>Other Comment:</u> Decide at time of harvest whether to separate the far south and southeast to a shelterwood cut leaving yellow birch and hemlock and other minor component species. If ash is found in this stand focus on marking out the ash.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2020</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>36 33098036-Monitor</b>	6.0	4199 - Other Mixed Upland Deciduous	Sapling Poor	1	1-50	Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, Maple, and mixed upland conifers.</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> 9/10/2019</p>										
<b>37 33098037-Cut</b>	3.7	4110 - Sugar Maple Association	Sawtimber Well	75	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selection: Retain approximately 70-80 BA throughout. This harvest will improve the stand quality and create opportunities for regeneration.</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> Any mix of the overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> If the Two Technicians sale 33-006-17-01 in stand 36 is not completed when this is prepared then include with that on a supplement.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>40 33098040-Cut</b>	4.9	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	105	Unspecified	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees except do not cut any cedar. The treatment area is a subset of the larger stand. This treatment leaves the main intact cedar for cover and provides food source when harvested. The regeneration will provide long term age and species diversity.</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> Any mix of the overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> This stand should be cut in the winter months due to low wet ground in some of the treatment area and meeting prescription specifications.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>43 33098043-NF</b>	2.0	31021 - Cool Season Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3102 - Grass		No
<p><u>Prescription</u> Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others. Also sharecropping could be considered for this opening.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</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
55 33098055-Cut	40.1	4110 - Sugar Maple Association	Sawtimber Well	88	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Single tree selection: This stand is closing in on two-aged in some areas with larger diameters on top of regeneration. Open up to 70 BA  <u>Specs:</u> with some decent sized canopy gaps to encourage regeneration.</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> The existing BA is 100-110 and pockets have little regeneration with more leatherwood. The west and east fringe of the boundary is more  <u>Comment:</u> red maple and graduating to black ash areas. This harvest will improve existing stand quality and enhance existing regeneration.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
59 33098059-Cut	19.1	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	81	1-50	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention: Cut all trees except do not cut cedar unless necessary for operations. There are pockets of pure black ash with little  <u>Specs:</u> to no overstory timber to harvest. Retain those areas of black ash specifically the areas that may be difficult for operations. Leave a few yellow birch by designate or marking.</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> The treatment area will be reduced due to retention. The placement will be best placed during timber sale preparation. This harvest will be  <u>Comment:</u> done with stand 55 and will allow age diversity with regeneration of hardwood between stand 55 and 59.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										

**Total Treatment** 177.2  
**Acreage Proposed:**

## Report 4 – Site Conditions

Escanaba Mgt. Unit  
Dan Racine: Examiner

Compartment: 98  
Year of Entry: 2021

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	2B	2G	3L	5E
		With Condition	Not Available					
202	202	0	0	Aspen				
250	0	0	250	Cedar			250	
10	10	0	0	Herbaceous Openland				0
12	5	0	7	Lowland Conifers			7	0
70	62	0	8	Lowland Mixed Forest	0	8		
67	67	0	0	Lowland Shrub				
3	3	0	0	Marsh	0			
96	94	0	2	Mixed Upland Deciduous			0	2
210	197	13	0	Northern Hardwood	13	0		0
919	639	13	266	Total Forested Acres	13	8	256	2
	70%	1%	29%	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	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> These stands are best treated when stand 48 and 51 are available to harvest.							
2	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Escanaba Mgt. Unit  
Dan Racine: Examiner

Compartment: 98  
Year of Entry: 2021

4	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Concern due to leaving all cedar in this stand that operability is difficult without severe rutting.							
6	Unavailable	3L: Other wildlife concerns	250	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	Unavailable	3L: Other wildlife concerns	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

**Escanaba Mgt. Unit**  
**Dan Racine : Examiner**

**Compartment: 98**  
**Year of Entry: 2021**

16	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



## Report 5 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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## Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area  
 HCVA = High Conservation Value Area  
 SCA = Special Conservation Area

Conservation Area	Type	Description
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			
2	3102 - Grass	Nonstocked	1.0		Unspecified	No				
3	4110 - Sugar Maple Association	Sawtimber Well	6.0	88	141-170	N/A	Majority sugar maple stand with other species along the edge. This stand is already on contract. Unit 3 of the South Engineer sale. Cut all trees marked with orange paint.			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Sugar Maple	91	Log	12	88	Sugar Maple	Low	10 - 20 feet	Sapling
4	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	2.2	95	81-110	N/A	Upland island within the cedar swamp of overmature timber.			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Red Maple	30	Log/Pole	12	95	White Spruce	Low	Variable	Sapling
		Yellow Birch	10	Log	12		Balsam Fir	Low	Variable	Sapling
		Paper Birch	20	Log/Pole	10					
		Balsam Fir	20	Log/Pole	10					
		White Spruce	15	Log/Pole	10					
5	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	23.4	42	51-80	N/A	I will type out as upland with lowland. Some older yellow birch here. Along the east portion is a strip of 5 inch approximately paper birch. Older timber along the opening. Approximately 50% of this stand is non-merchantable or 1 stick and less timber to the hardwood stand and east and some close to ready to harvest to the west with a few measured ages at 45. Look to treat entire stand next treatment period.			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Paper Birch	17	Pole/Sapling	5		Balsam Fir	Medium	5 - 10 feet	Sapling
		Balsam Poplar	25	Pole	7	42	White Spruce	Low	5 - 10 feet	Sapling
		Balsam Fir	20	Pole	6		Red Maple	Low	5 - 10 feet	Sapling
		Black Ash	15	Pole	6					
7	31021 - Cool Season Grass	Nonstocked	4.4		Unspecified	No				
8	4115 - Y.Birch, Hemlock NH	Sawtimber Well	4.0	88	81-110	N/A	Super canopy yellow birch and red maple. Previously marked. This stand should be cut with the stands to the west in compartment 99 when those are ready. Ignore the marks and likely clearcut is best here.			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Red Maple	71	Log	11	88	Red Maple	Medium	>20 feet	Pole
		Yellow Birch	20	Log	16		Balsam Fir	Low	5 - 10 feet	Sapling
9	4119 - Mixed Northern Hardwoods	Sawtimber Poor	5.9	81	1-50	N/A	50/50 toss up whether the understory or overstory is the main canopy.			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Red Maple	73	Log	12	81	Red Maple	High	5 - 10 feet	Sapling
		Paper Birch	10	Log	12		Balsam Fir	Low	5 - 10 feet	Sapling
							White Spruce	Low	5 - 10 feet	Sapling
10	3102 - Grass	Nonstocked	2.8		Unspecified	No				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
11	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	16.3	92	Unspecified	N/A																																																
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12	4134 - Aspen, Spruce/Fir	Sapling Well	12.6	27	1-50	N/A																																																
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13	4130 - Aspen	Poletimber Well	36.0	42	81-110	N/A	This stand is a variable stand with upland and lowland pockets with aspen ground and balm ground in lowland areas. Several stands combined and next treatment period this stand will be ready to harvest. Prefer to wait to next treatment, maximize volume throughout the stand and should hold up well. Lots of red maple browse in the seedlings.																																															
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14	4112 - Maple, Beech, Cherry Association	Sawtimber Well	15.5	83	81-110	N/A	This stand or portion was cut in 2003 on Unit 5 of the Anderson Camp sale (orange marked, all balm, aspen, spruce/fir cut and some of the white birch cut).																																															
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15	6120 - Lowland Cedar	Poletimber Well	190.7	95	Unspecified	N/A	Cedar stand with a couple of upland islands here. The south which is now stand 11 was separated into a stand that is more ash and lowland mixed. Some areas are pure cedar.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
16	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	23.9	29	1-50	N/A	Scattered stand with some pockets of balm, aspen, and balsam fir merchantable and pockets of black cherry and balsam fir sub-merchantable and pockets of lowland brush with willow. Canopy closure in merchantable areas are 75-100% and 0-25% in the lowland brush type. Manage with stand 30 in compartment 99.																																										
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18	4119 - Mixed Northern Hardwoods	Poletimber Well	29.1	81	81-110	N/A	Cut last in or some portions cut in 1991 under the Engineer pond hardwoods sale. Regeneration in some areas, look to release. Preferable to leave heavy pockets of regeneration, result in acreage adjustment to treatment. More upland than lowland.																																										
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19	4112 - Maple, Beech, Cherry Association	Sawtimber Well	19.7	86	111-140	N/A	Lot of browsing in the maple. This stand was unit 4 of the Andersen camp sale cut in 2003. (all balsam fir, balm, aspen, some paper birch and marked hardwoods cut)																																										
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21	4110 - Sugar Maple Association	Sawtimber Well	3.7	88	81-110	N/A	Minor component of cedar, white spruce, white birch, yellow birch. This stand was cut under the Engineer Hardwood sale in 3/2013. Heavily browsed maple regeneration. Raspberries high in some areas.																																										
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22	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	7.6	90	Unspecified	N/A	This stand would be difficult to operate and harvest without significant rutting if cedar																																										
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<b>23</b>	4110 - Sugar Maple Association	Poletimber Well	23.9	88	111-140	N/A	The southeast portion of this stand was previously stand 26. That area and along the engineer road is more red maple than the main stand with some hemlock and yellow birch and other minor component species.																																														
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<b>24</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	11.5	16	1-50	N/A	This stand was unit 1 of the Anderson Camp sale. "Cut all trees except cedar, hemlock, pine and hardwoods. All white birch were cut that contained 1 or more sticks as well." The result is a stand with aspen/balm regeneration 16 years old with paper birch mixed in and some spruce and fir in the understory. The canopy is also made up of red maple, yellow birch and cedar mixed in the super canopy and blowdown of all in some pockets. This could be two aged with the cedar and hardwoods as 25-50% canopy and everything else the understory. This is how I made the call. Browse in the maple.																																														
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<b>25</b>	6229 - Mixed lowland shrub	Nonstocked	5.7	0	Unspecified	No	This stand is willow and tag alder with black ash and some scattered maple, spruce/fir, cedar and other hardwoods.																																														
<b>28</b>	622 - Lowland Shrub	Nonstocked	2.7		Unspecified	No																																															
<b>29</b>	4112 - Maple, Beech, Cherry Association	Poletimber Well	8.3	80	81-110	N/A	This stand has older large diameter red maple, yellow birch, etc and smaller 6-9" red maple.																																														
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<b>30</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	36.9	92	81-110	N/A	Previous stands 27 and 33 were mixed conifer types with trace amounts of lowland hardwoods. These stands were small and merged into the hardwood stand which is where the ash, fir/spruce/cedar cover types are from. The original hardwood portion Cut under the North and south sale. Currently a lot of raspberries in the understory with sugar maple seedlings heavily browsed outside the raspberry areas. In subsequent treatments may look to clearcut these mixed upland conifer and lowland hardwood portions.																																														
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<b>36</b>	4199 - Other Mixed Upland Deciduous	Sapling Poor	8.8	1	1-50	N/A	Monitor regen next treatment period currently coming back with mix of aspen,balm and residual cedar left.																																														
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37	4110 - Sugar Maple Association	Sawtimber Well	3.7	75	111-140	N/A	Small hardwood stand.																																				
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38	6239 - Mixed Emergent Wetland	Nonstocked	2.6		Unspecified	No	Lowland grass with water at times.																																				
39	4130 - Aspen	Sapling Well	17.5	16	Immature	N/A	Strip along the edge of the road is bigger balsam fir, aspen, red maple, white birch.																																				
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40	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	11.8	105	Unspecified	N/A	Cedar stand but treatment area in the upland off the road.																																				
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41	4134 - Aspen, Spruce/Fir	Sapling Well	11.1	6	Unspecified	N/A	Cut under the North and South sale. Scattered paper birch and spruce left with a retention patch.																																				
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42	4112 - Maple, Beech, Cherry Association	Sawtimber Well	13.4	88	111-140	N/A	Spruce and balsam fir on the southern edge. Stand previously unable to obtain permission to go through private. No good way to go through state until stand 48 and 46 are harvested.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																													
43	31021 - Cool Season Grass	Nonstocked	2.0		Unspecified	No	Unlisted species is birdsfoot trefoil.																													
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44	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	45.8	90	Unspecified	N/A	The age was taken on black ash. Low stand with potential for two-aged call.																													
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45	629 - Mixed non-forested wetland	Nonstocked	58.8		Unspecified	No	This stand is a mix of marsh grass open, wet, lowland brush and flooded areas with dead cedar and scattered black ash. A few pockets of timber with balm with total cover type % less than 25%.																													
47	4130 - Aspen	Poletimber Well	32.1	36	81-110	N/A	Combined a couple of stands together that are similar enough in canopy and age.																													
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48	4134 - Aspen, Spruce/Fir	Poletimber Well	11.8	28	1-50	N/A	Cedar and red maple here. This stand should be ready within the next 2 treatment periods.																													
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51	4130 - Aspen	Poletimber Well	80.7	35	Unspecified	N/A	red maple and white spruce here as well. This stand will be ready or some parts ready to cut in the 2031 cycle. Almost there now.																													
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<b>55</b>	4110 - Sugar Maple Association	Sawtimber Well	40.1	88	81-110	N/A	The stand 29 was broken apart from this stand to the west. Stand 29 is red maple mixed with smaller/larger diameters and more black ash.																																														
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White Ash	Medium	5 - 10 feet	Sapling																																																		
Ironwood	Medium	10 - 20 feet	Sapling																																																		
<b>56</b>	6120 - Lowland Cedar	Poletimber Well	19.6	106	111-140	N/A	This stand has a ridge of hardwood mixed in with cedar and other lowland conifers in the south and north half. No practical way to harvest without harvesting the cedar, this would be a candidate to harvest if looking for feeding deer within lowland cedar.																																														
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<b>57</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	6.8	16	Immature	N/A	This stand was unit 7 of the maple ridge sale completed in 2003. ( Cut all trees ex: cedar, hemlock, yellow birch, pine, spruce, and hardwoods marked with green paint). Most of the standing timber is blown down with some scattered trees left. This is either the understory with the main stand with scattered super canopy or overstory with 0-25/25-50% canopy and understory regeneration post harvest. Scattered white spruce log sized.																																														
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<b>58</b>	6120 - Lowland Cedar	Poletimber Well	39.5	125	Unspecified	N/A	70% or more cedar in the majority of the stand with location of other species mixed in.																																														
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<b>59</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	19.1	81	1-50	N/A	Some yellow birch and some white spruce super canopy. This stand is mixed upland/lowland with more upland to the western boundary. There is timber to cut but scattered.																																														
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