



# Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33097

Entry Year 2017

Acreage: 1,243

County Delta

Management Area: Dead Horse Moraines

---

**Revision Date:** 2015-07-10

**Stand Examiner:** Dan McNamee

**Legal Description:**

T43N, R22W Sections 21, 28, 33

**Identified Planning Goals:**

A total of 236 acres will be treated within this compartment. 110 acres of aspen, 18 acres of lowland conifers, 27 acres of lowland deciduous, 13 acres of lowland mixed forest, 3 acres of mixed upland deciduous and 40 acres of northern hardwood will be final harvested and allowed to regenerate naturally. 24 acres of northern hardwoods will be treated using the shelterwood method.

**Soil and topography:**

Lowland soils consist of Cathro and Tacoosh mucks. Upland soils consist of Ternary and Onaway fine sandy loams.

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

Flat to slightly rolling.

**Unique Natural Features:**

N/A

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

N/A

**Special Management Designations or Considerations:**

N/A

**Watershed and Fisheries Considerations:**

Rapid River and Friday Creek

**Wildlife Habitat Considerations:**

This compartment is divided into two distinct blocks separated by private land. Both state land blocks have large acreage of aspen forest. A portion of the aspen stands will be clearcut this decade, and the remaining stands will simply be allowed to grow. Northern hardwoods, cedar, and mixed lowland forest make up the majority of the remaining acreage in both blocks. Some of the hardwood stands and lowland mixed forest will be thinned this decade, and poor quality hardwood stands may be final harvested and regenerated to a mix of maple, aspen, spruce, and fir. Select harvesting activities will be conducted during the winter (Dec 1 – Mar 31) to enhance deer foraging resources. Currently, there is very little conifer component within these maple-basswood-ash stands. Thinning within poor-quality hardwood stands should encourage regeneration of spruce, white pine, hemlock, and balsam fir. Stand 400 is a rocky forest opening covered with exotic spotted knapweed. The eastern portion of this stand will be planted to red pine (along with the adjacent stand of European Larch) to combat the knapweed and the long-term goal will be to convert both stands to northern hardwood.

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

Surface sediments consist of medium-textured glacial till. There is insufficient data to determine the glacial drift thickness (~<50 feet). The Ordovician Trenton Formation underlies the glacial drift. The Trenton is quarried for stone to the south, near Escanaba. State land in Section 33 may have previously been leased for mineral exploration and development. No active gravel pits are in the area and potential appears to be limited within the compartment due to thin glacial drift. No economic oil and gas production has been found in the UP.

**Vehicle Access:**

Access into this area is good via the Maki and Engineer Roads.

**Survey Needs:**

None

**Recreational Facilities and Opportunities:**

Hunting and trapping.

**Fire Protection:**

Potential for a large fire is small due to the timber types within this compartment. Should a fire get started, access into the area is good.

**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**

Report 1 – Total Acres by Cover Type and Age Class

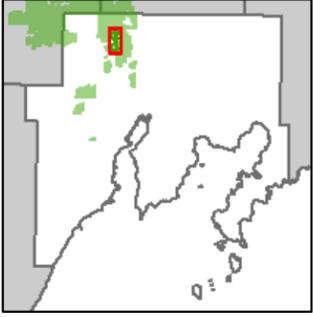


Age Class

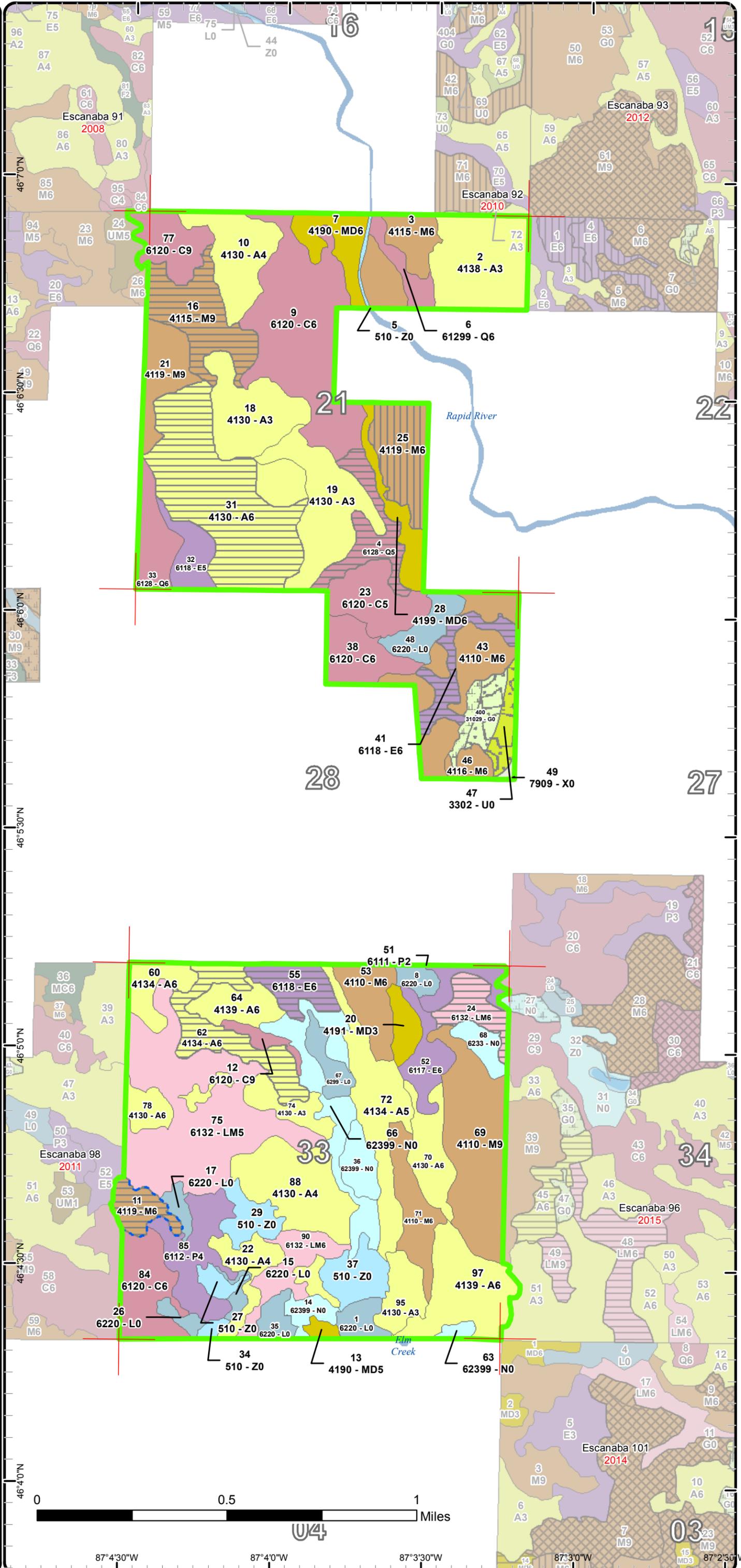
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	12	118	109	84	110	0	0	0	0	0	0	0	0	0	0	0	0	433
Bare/Sparsely Vegetated	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Cedar	0	0	0	0	0	0	0	0	0	0	0	69	87	0	0	0	0	0	156
Herbaceous Openland	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Low-Density Trees	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Aspen/Balsam Poplar	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Lowland Conifers	0	0	0	0	0	0	0	0	18	0	16	8	0	0	0	0	0	0	42
Lowland Deciduous	0	0	0	0	0	0	0	12	27	0	0	0	0	0	0	0	0	13	52
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	109	0	0	0	0	0	0	0	109
Lowland Shrub	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Marsh	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Mixed Upland Deciduous	0	8	0	0	13	0	0	0	18	0	0	0	0	0	0	0	0	0	39
Northern Hardwood	0	0	0	0	0	0	0	0	146	30	0	0	0	0	0	0	0	51	227
Water	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
<b>Total</b>	<b>153</b>	<b>20</b>	<b>118</b>	<b>141</b>	<b>97</b>	<b>110</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>209</b>	<b>30</b>	<b>194</b>	<b>95</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>64</b>	<b>1243</b>

# Cover Type & Treatments

Compartment: 97  
 T43N R22W 20,21,28,33,34  
 County: Delta  
 Unit: Escanaba  
 Mgmt Area: Dead Horse Moraines  
 YOE: 2017  
 Acres: 1243 GIS Calculated  
 Examiner: Dan McNamee  
 Map Revised: 7/7/2015  
 Map Phase: Pre-Review

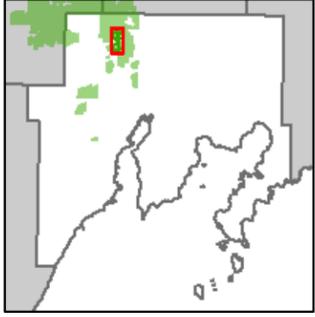


- Miris Corners
- Lakes
- Treatments with Site Conditions
- Treatments
- Clearcut (w/Reserves)
- Other Treatment - See Comments
- Regeneration Survey
- Shelter Wood (w/Reserves)
- Forest Covertype**
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- Non-Forest Covertype**
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 790 - Other Bare/Sparsely Vegetated

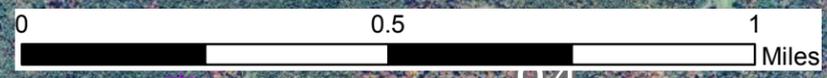
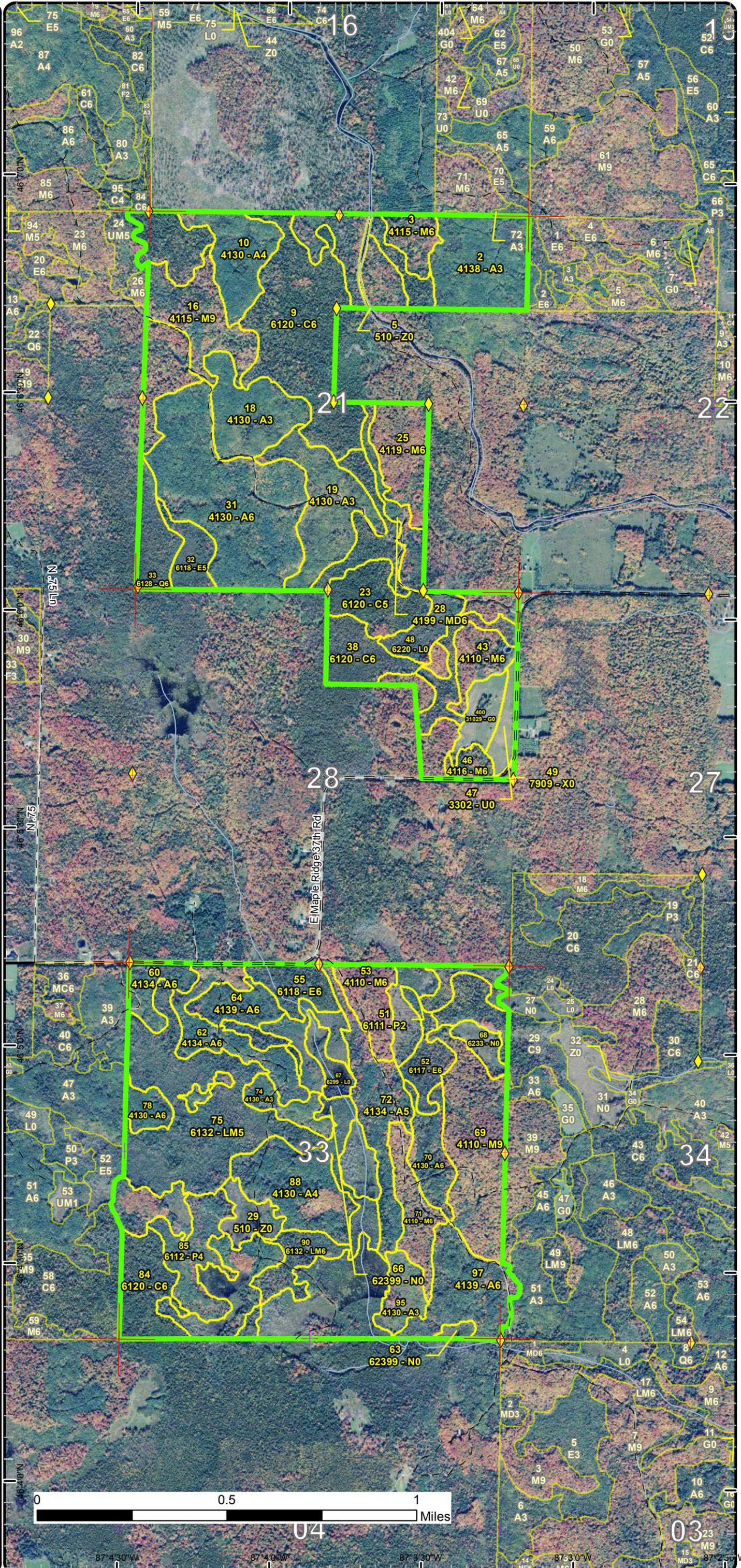


# Stand Boundary Map

Compartment: 97  
 T43N R22W 20,21,28,33,34  
 County: Delta  
 Unit: Escanaba  
 Mgmt Area: Dead Horse Moraines  
 YOE: 2017  
 Acres: 1243 GIS Calculated  
 Examiner: Dan McNamee  
 Map Revised: 7/7/2015  
 Map Phase: Pre-Review



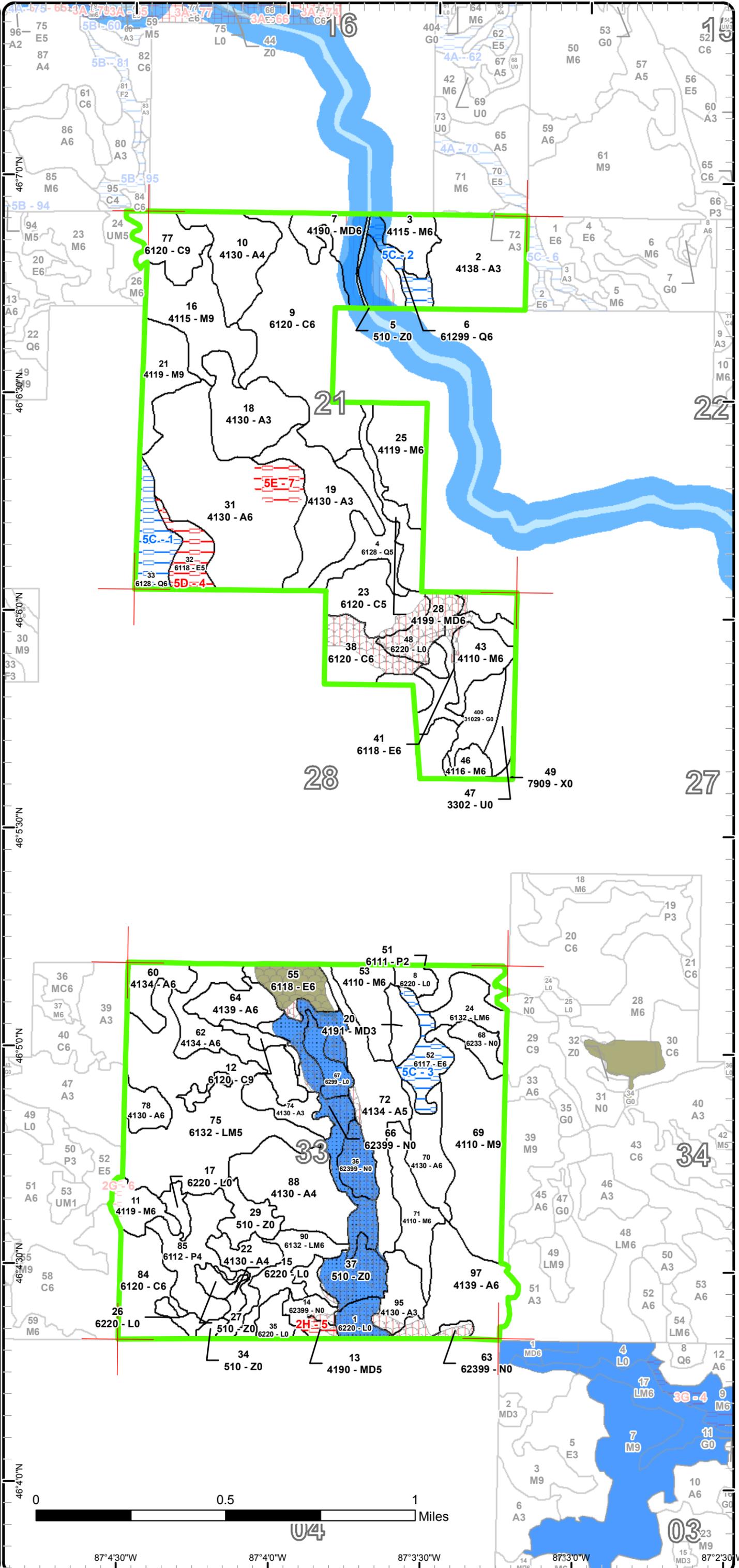
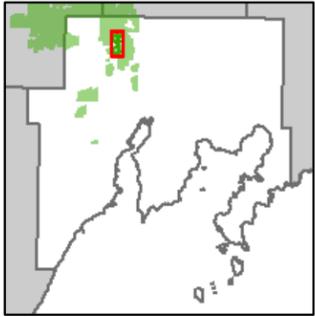
- ✚ Remonumented Section Corner
  - ◆ Survey Grade GPS Corners
  - Miris Corners
  - Paved Roads
  - Gravel Roads
  - Poor Dirt Roads
  - Trail (Non-Recreation)
  - Closed Roads
  - Rivers
  - Stand Boundaries
- Forest Covertypes**
- 411 - Northern Hardwood
  - 413 - Aspen
  - 419 - Mixed Upland Deciduous
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
  - 613 - Lowland Mixed Forest
- Non-Forest Covertypes**
- 310 - Herbaceous Openland
  - 330 - Low Density Trees
  - 500 - Water
  - 622 - Lowland Shrub
  - 623 - Emergent Wetland
  - 790 - Other Bare/Sparsely Vegetated



04 03  
 87°43'0"W 87°40'0"W 87°30'0"W 87°30'0"W 87°25'0"W

# Special Conservation Areas & Site Conditions Map

Compartment: 97  
 T43N R22W 20,21,28,33,34  
 County: Delta  
 Unit: Escanaba  
 Mgmt Area: Dead Horse Moraines  
 YOE: 2017  
 Acres: 1243 GIS Calculated  
 Examiner: Dan McNamee  
 Map Revised: 7/7/2015  
 Map Phase: Pre-Review



- Miris Corners
- Stand Boundaries
- ▨ SCA
- ▨ SCA Removal
- Site Condition
- Available w/ Constraints
- Unavailable
- Available Factors W/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Special Conservation Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Riparian Area



## Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2017

Acres of Harvest

Compartment 97

Total Compartment Acres: 1,243

Commercial Harvest - 0  
 Harvests with Site Condition - 10  
 Next Step Harvest - 0  
 Habitat Cut - 19

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	101	0	0	0	0	0	0	0	0	101
Lowland Conifers	18	0	0	0	0	0	0	0	0	18
Lowland Deciduous	27	0	0	0	0	0	0	0	0	27
Lowland Mixed Forest	13	0	0	0	0	0	0	0	0	13
Northern Hardwood	40	0	0	0	24	0	0	0	0	65
<b>Total</b>	<b>200</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>224</b>

### Proposed and Next Step Treatments by Harvest Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	224	0	0	0	0	0	15	0	4	244
Next Step	0	0	24	0	0	0	224	0	0	249
<b>Total</b>	<b>224</b>	<b>0</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>240</b>	<b>0</b>	<b>4</b>	<b>492</b>



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	Approval Status
4	33097004-Cut	18.0	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	83	1-50	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Proposal

**Habitat Cut: No**

**Site Condition:**

Prescription Remove Mature Timber. Leave 1 stick and less timber, leave heavy areas of cedar intact. Winter cut this stand and no chipping.

Specs:

Next Step

Treatments:

Acceptable Fsb, P, Fb, Wb

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

11	33097011-Cut	10.0	4119 - Mixed Northern Hardwoods	Poletimber Well	85	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
----	--------------	------	---------------------------------	-----------------	----	--------	---------	-------------------------	----------------------------	-----------	----------

**Habitat Cut: No**

**Site Condition: Too Wet**

Prescription Cut all trees. Leave small piece of retention for cover. this will be decided at time of sale. Winter cut this stand and no chipping.

Specs:

Next Step

Treatments:

Acceptable Maple, Balsam fir, Fbsw, A.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

16	33097016-Cut	30.3	4115 - Y.Birch, Hemlock NH	Sawtimber Well	91	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
----	--------------	------	----------------------------	----------------	----	-------	---------	-------------------------	----------------------------	-----------	----------

**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut leaving areas with heavy cedar intact. Also leave small patch of younger timber in NW corner. Winter cut and no chipping.

Specs:

Next Step

Treatments:

Acceptable Rm, Ash, Fb, Fsw, P.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

24	33097024-Cut	12.8	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	107	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Proposal
----	--------------	------	--	-----------------	-----	--------	---------	-------------------------	----------------------------	-----------	----------

**Habitat Cut: No**

**Site Condition:**

Prescription Leave heavy pockets of cedar intact, remove all other timber.

Specs:

Next Step

Treatments:

Acceptable P, Wb, Rm, Fb, Ash

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



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	Approval Status
-----------------------	----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-----------------

25	33097025-Cut	24.3	4119 - Mixed Northern Hardwoods	Poletimber Well	80	81-110	Harvest	Shelterwood	411 - Northern Hardwood	Even-Aged	Proposal
----	--------------	------	---------------------------------	-----------------	----	--------	---------	-------------	-------------------------	-----------	----------

**Habitat Cut: No**

**Site Condition:**

Prescription Thinning/ selection in the better quality maple area to the west, Shelterwood the poorer quality to the East. Leave the Yb for wildlife trees, leave the cedar in the NE corner.

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

Acceptable Regen: Maole, Ash, Fb, Fsw, and other mixed hwd spp.

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016

31	33097031-Cut	76.2	4130 - Aspen	Poletimber Well	46	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
----	--------------	------	--------------	-----------------	----	--------	---------	-------------------------	-------------	-----------	----------

**Habitat Cut: No**

**Site Condition:**

Prescription Cut all trees, leave a retention area within the aspen and the tag alder area with B. ash. Leave retention to the north and east of engineer rd, approx. 9 ac. Winter cut this stand and no chipping.

Next Step Treatments:

Acceptable Regen: A, Fb, Fsw, M and other mixed deciduous

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016

41	33097041-Cut	13.4	6118 - Lowland Deciduous with Cedar	Poletimber Well	80	51-80	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Proposal
----	--------------	------	-------------------------------------	-----------------	----	-------	---------	-------------------------	----------------------------	-----------	----------

**Habitat Cut: No**

**Site Condition:**

Prescription Cut all mature timber leave retention patches of heavy cedar areas intact.

Next Step Treatments:

Acceptable Regen: Rm, Yb, B.ash, P, A, Fb,Fs,

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016

47	33097047-Monitor	7.5	3302 - Low Density Conifer Trees	Nonstocked	4	Immature	Monitoring	Artificial Regen(3yr)	42110 - Planted Red Pine	Even-Aged	Proposal
----	------------------	-----	----------------------------------	------------	---	----------	------------	-----------------------	--------------------------	-----------	----------

**Habitat Cut: Yes**

**Site Condition:**

Prescription Site was trenched and planted to Red Pine in spring of 2015. Artificial regeneration survey in spring of 2018. FTP completion report 33-675 in compartment files.

Next Step Treatments:

Acceptable Regen: Red Pine

Other Comment: Old next step comments:

Proposed Start Date: 4 /1 /2018



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	Approval Status
55	33097055-Cut	14.1	6118 - Lowland Deciduous with Cedar	Poletimber Well	89	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Proposal

**Habitat Cut: No**

**Site Condition:**

Prescription Cut all timber, leaving a cedar retention patch on the East side and buffer the creek that runs through stand. If feasible no winter cutting here to maximize conifer regeneration.

Next Step  
Treatments:

Acceptable Ash, Maple, Balm, Fb, Fs.  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

62	33097062-Cut	25.2	4134 - Aspen, Spruce/Fir	Poletimber Well	40	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
----	--------------	------	--------------------------	-----------------	----	--------	---------	-------------------------	----------------------------	-----------	----------

**Habitat Cut: No**

**Site Condition:**

Prescription Cut all trees, leave retention, leave the elm. retention will be determined at time of sale prep. Winter cut and no chipping.

Next Step  
Treatments:

Acceptable A, P, Fb, Fs. maple.  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

400	33097400-13-New	3.9	31029 - Grass (OI)	Nonstocked			Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland	Proposal
-----	-----------------	-----	--------------------	------------	--	--	--------------	--------------	-----------------	---------------------------	----------

**Habitat Cut: Yes**

**Site Condition:**

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.

Next Step  
Treatments:

Acceptable  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

400	33097400-Monitor	7.7	31029 - Grass (OI)	Nonstocked			Unspec ified	Monitoring	Artificial Regen(1yr)	4211 - Planted Red Pine	Even-Aged	Proposal
-----	------------------	-----	--------------------	------------	--	--	--------------	------------	-----------------------	-------------------------	-----------	----------

**Habitat Cut: Yes**

**Site Condition:**

Prescription This site was planted to red pine in spring of 2017 under FTP 33-675.

Next Step  
Treatments:

Acceptable Red Pine  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 4 /1 /2017

**Total Treatment Acreage Proposed: 243.5**

## Report 5 – Site Conditions

Escanaba Mgt. Unit  
Dan McNamee : Examiner

Compartment: 97  
Year of Entry: 2017

### Availability for Management

Total Acres	Acres		Dominant Site Conditions	2G	2H	5C	5D	5E
	Available	Not Available						
433	424	9	Aspen					9
3	3	0	Bare/Sparsely Vegetated					
156	156	0	Cedar					
12	12	0	Herbaceous Openland					
7	7	0	Low-Density Trees					
32	32	0	Lowland Aspen/Balsam Poplar					
42	18	24	Lowland Conifers			24		
52	27	25	Lowland Deciduous			13	12	
109	109	0	Lowland Mixed Forest					
47	47	0	Lowland Shrub					
52	52	0	Marsh					
38	35	3	Mixed Upland Deciduous		3			
227	226	2	Northern Hardwood	2				
32	32	0	Water					
1,243	1,181	62	Total Forested Acres	2	3	36	12	9
	95%	5%	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	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Escanaba Mgt. Unit  
 Dan McNamee : Examiner

Compartment: 97  
 Year of Entry: 2017

3	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>5D: Unproductive Forest Land</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention for stand 31.							



**Report 6 – 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
<b>Friday Creek Riparian Area</b> <b>Comments</b>	Spring-Seeps, Riparian Areas	Riparian Area	<b>Proposed SCA</b>	64
<b>Unspecified</b> <b>Comments</b>	Other SCA		<b>SCA Removal</b>	15
Black ash drainage, wet. Small creek runs through this stand. SCA designation is for riparian zone along creek.				
<b>Unspecified</b> <b>Comments</b>	Other SCA		<b>SCA Removal</b>	13
SITE INDEX AND YEAR OF ORIGIN NOT AVAILABLE. SCA DESIGNATION IS FOR RIPARIAN ZONE MANAGEMENT ALONG SMALL NO- NAME CREEK THAT RUNS THROUGH STAND.				
<b>Unspecified</b> <b>Comments</b>	Other SCA		<b>SCA Removal</b>	15
Black ash drainage, wet. Small creek runs through this stand. SCA designation is for riparian zone along creek.				
<b>Unspecified</b> <b>Comments</b>	Other SCA		<b>SCA Removal</b>	13
SITE INDEX AND YEAR OF ORIGIN NOT AVAILABLE. SCA DESIGNATION IS FOR RIPARIAN ZONE MANAGEMENT ALONG SMALL NO- NAME CREEK THAT RUNS THROUGH STAND.				
<b>Unspecified</b> <b>Comments</b>	Other SCA		<b>SCA Removal</b>	17
BEAVER FLOODING; SIGNIFICANT STANDING DEAD TIMBER. SCA designation is for riparian zone along creek.				
<b>Unspecified</b> <b>Comments</b>	Other SCA		<b>SCA Removal</b>	4
SCA DESIGNATION IS FOR RIPARIAN ZONE MANAGEMENT ALONG CREEK. HAS MINOR Q INCLUSIONS.				
<b>Unspecified</b> <b>Comments</b>	Other SCA		<b>SCA Removal</b>	8
SCA DESIGNATION IS FOR RIPARIAN ZONE MANAGEMENT ALONG CREEK. BEAVER FLOODING.				
<b>Unspecified</b> <b>Comments</b>	Other SCA		<b>SCA Removal</b>	5
Very wet, smallwood, south of beaver pond. SCA designation is for riparian management along Friday creek.				
<b>Unspecified</b> <b>Comments</b>	Other SCA		<b>SCA Removal</b>	18
SCA DESIGNATION IS FOR RIPARIAN ZONE MANAGEMENT ALONG CREEK.				



**Report 6 – 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
<b>Unspecified</b>	Other SCA		<b>SCA Removal</b>	2
<b>Comments</b> OLD BEAVER POND, FILLING IN WITH MARSH GRASS. SCA designation is for riparian zone management.				
<b>Unspecified</b>	Potential Old Growth		<b>SCA Removal</b>	12
<b>Comments</b> POTENTIAL OLD GROWTH. SOME P&Q INCLUSIONS. FRIDAY CREEK RUNS THROUGH STAND, SCA designation is for riparian zone management along creek. Mix hardwood is mix of red maple and white birch.				



**Report 7 – 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	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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4138 - Aspen (OI)	Sapling Well	39.6	18	Immature	Upland and lowland, upland mostly aspen, lowland P, Ash. Look at combing this stand with C92 or 96 because of the river. Treatments will be done coming in from the north or west. OPIC - FMD: Stand was cut in 1997 under contract 010-95-01, "Horsefly Aspen".
3	4115 - Y.Birch, Hemlock NH	Poletimber Well	20.6	80	81-110	Combine this stand with C-92 or C96. Treat this stand next time. leave buffer along river for the East area. Remove from SCA.OPIC - FMD: This stand is adjacent to the Rapid River. SCA designation is for riparian zone along the Rapid River.
4	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	18.0	83	1-50	2015- Not the best quality timber, scattered pockets of good stuff, harvest this and start over. OPIC - FMD: Not the best quality, small wood, very wet. Magpie sale was cut up to this area. Leave it for wildlife cover.
6	61299 - Mixed Swamp Conifer (OI)	Poletimber Well	8.1	111	81-110	2015 Did not look at this time around. Combine this stand into C-92 or 96.OPIC - FMD: GRADES TO MORE OF AN E TYPE TO THE SOUTH.
7	4190 - Mixed Upland Deciduous with Cedar	Poletimber Well	14.9	80	111-140	High ground is red maple with hemlock and yellow birch. There are patches of aspen that is 25 years old with Fb.
9	6120 - Lowland Cedar	Poletimber Well	70.3	115	111-140	Cedar with mix of short lvd spp. P is dead where stand is open from falling timber Fb is filling in. Ash component is small diameter and regen is 3-5 ft. and browsed. some high knobs that contain C, Fs, Wb, and Rm.
10	4130 - Aspen	Poletimber Poor	25.1	25	Immature	2015- some wet drainages that contain P, ash and Tag Alder. OPIC - FMD: TRANSITIONING BETWEEN A3-A4. 10-20 SQ. FEET B.A. 4" DIAMETER, 1 STICK.
11	4119 - Mixed Northern Hardwoods	Poletimber Well	10.0	85	81-110	The north end of the stand is a 50/50 mix of red maple/sugar maple. The south end is a mix of large aspen with more balsam fir and white spruce with some paper birch. Some blowdown on the south end.
12	6120 - Lowland Cedar	Sawtimber Well	4.6	107	111-140	Mainly cedar with a mix of spruce, yellow birch, black ash, and red maple.
13	4190 - Mixed Upland Deciduous with Cedar	Poletimber Medium	2.6	87	51-80	2015- Fb, Fs falling down OPIC - FMD: SCA DESIGNATION IS FOR RIPARIAN ZONE MANAGEMENT ALONG CREEK. HAS MINOR Q INCLUSIONS.
16	4115 - Y.Birch, Hemlock NH	Sawtimber Well	30.3	91	51-80	OPIC - FMD: Stand is nearing time for treatment, a light thinning is all that will be needed. Treated in 2011 under contract 330030701, Engineer Road Hardwoods sale.
18	4130 - Aspen	Sapling Well	29.7	18	Immature	2015- small pocket of cedar wetland in south central part of stand. OPIC - FMD: This stand was part of stand 13 originally. This stand was harvested summer of 1997 under contract #33-012-97-01 "Engineer Aspen"/



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	4130 - Aspen	Sapling Well	35.4	11	Immature	This stand was harvested summer of 2004 under contract # 33-009-02-01, "Magpie Sale". There are parts of other stands that are now combined with this stand. Low end of the 75-100 % canopy cover type. Some areas are 25-50/50-75. Upland areas have aspen and lowland with tag alder, cattails, black ash, and balm. Heavy deer browsing.
20	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	7.6	4	1-50	2015 - this stand was cut in 2011.. Filling in with A, P, Rm, Fb, Fsb. Residual C, Fsb, Yb left for seed and retention in clumps and individually. OPIC - FMD: STAND HAS E & C INCLUSIONS; ALSO A 2A UPLAND M TYPE ON EAST SIDE. LOW WET GROUND. WE KIND OF MISSED THE BOAT ON THIS STAND. LOTS OF YOUNG BLACK ASH COMING IN WHERE BLOWDOWNS HAVE OPENED THE STAND UP. This stand is part of the 2011 additional acreage. Shelterwood harvest determine the amount of trees and which ones during dale prep. Leave all cedar and hemlock. 8 acres of this stand was cut in 2012 contract 17-11-01.
21	4119 - Mixed Northern Hardwoods	Sawtimber Well	17.3	80	51-80	Better quality hdwds than the east side of road. OPIC - FMD: Stand is nearing time for treatment, a light thinning is all that will be needed. Treated in 2011 under contract 330030701, Engineer Road Hardwoods sale.
22	4130 - Aspen	Poletimber Poor	16.3	28	1-50	2015 - Nice aspen stand , heavy Rm in understory 1'-15'tall beaver floodings to N & S. Access will be questionable. OPIC - FMD: Beaver have flooded areas within this stand. It was treated in 1987 under contract 045-84-01.
23	6120 - Lowland Cedar	Poletimber Medium	21.8	104	1-50	2015 - Cedar is nice quality on south end, small upland knolls found scattered throughout. Quality of cedar declines as you go north. OPIC - FMD: Not the best quality, small wood, very wet. Magpie sale was cut up to this area. Leave it for wildlife cover.
24	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	12.8	107	81-110	2015- stand should be harvested Wb and P mature, can move around in the stand where cedar is not heavy. OPIC - FMD: STAND HAS E & C INCLUSIONS; ALSO A 2A UPLAND M TYPE ON EAST SIDE. LOW WET GROUND. WE KIND OF MISSED THE BOAT ON THIS STAND. LOTS OF YOUNG BLACK ASH COMING IN WHERE BLOWDOWNS HAVE OPENED THE STAND UP. This stand is part of the 2011 additional acreage. Shelterwood harvest determine the amount of trees and which ones during dale prep. Leave all cedar and hemlock. 8 acres of this stand was cut in 2012 contract 17-11-01.
25	4119 - Mixed Northern Hardwoods	Poletimber Well	24.3	80	81-110	This stand was harvested during December of 2003 under contract #33-009-02-01 "Magpie Sale". The west side is more sugar maple and the east and south portion is red maple, with black ash, cedar. Too small to break apart.
28	4199 - Other Mixed Upland Deciduous	Poletimber Well	12.6	38	1-50	OPIC - FMD: OI Stand Year Origin was 1977
31	4130 - Aspen	Poletimber Well	85.2	46	81-110	OI Stand Year Origin was 1980 with older timber in most areas. Mix of big tooth and quaking aspen. Areas of low ground with some balm, ash, and tag alder. Lot of timber falling apart here.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	6118 - Lowland Deciduous with Cedar	Poletimber Medium	11.7	77	1-50	GENERALLY UNPRODUCTIVE. MOSTLY AN "L" TYPE TO THE WEST. STAND HAS Q2-3 INCLUSIONS OF BALSAM FIR ON N&E SIDES, Could also be called "E" type. Wet ground, small wood.
33	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	15.5	106	111-140	Mixture of cedar type to a lowland hardwood type, wet, small wood. Black ash and cedar with tag alder and a couple of pockets of balsam fir with paper birch and red maple.
38	6120 - Lowland Cedar	Poletimber Well	18.2	101	51-80	2015 - Cedar is scattered in some places heavy in others. Short lvd spp is small diameter, except birch. OPIC - FMD: OI Stand Year Origin was 1922
41	6118 - Lowland Deciduous with Cedar	Poletimber Well	13.4	80	51-80	Mix of all lowland species, pockets of cedar in places. leave pockets intact, cut all merchantable timber.
43	4110 - Sugar Maple Association	Poletimber Well	34.1	78	51-80	OPIC - FMD: Treated in 2011 under contract 330030701, Engineer Road Hardwood Sale.
46	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	5.3	80	51-80	2015 Aspen is filling well under the hardwood. West side of stand is mature aspen. There is a pond in the SW corner. OPIC - FMD: This stand was harvested june of 2002 under permit 33-008-02-02 (432 Aspen. There is currently small residual hardwoods scattered through out and also in some small patches. Overall this should be an A3 stand in the future.
51	6111 - Lowland Balsam Poplar	Sapling Medium	8.2	21	Immature	2015 - Coming back to fully stocked stand, A, P with scattered 1 stick Fb and some residual C. There is more Rm on NW edge. OPIC - FMD: Balm, 15-20' tall. Some reas of tag alder and cattaills in the lower ground. Some areas have good white birch regeneration.
52	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	12.8	85	81-110	OPIC - FMD: STAND HAS E & C INCLUSIONS; ALSO A 2A UPLAND M TYPE ON EAST SIDE. LOW WET GROUND. WE KIND OF MISSED THE BOAT ON THIS STAND. LOTS OF YOUNG BLACK ASH COMING IN WHERE BLOWDOWNS HAVE OPENED THE STAND UP. This stand is part of the 2011 additional acreage. Shelterwood harvest determine the amount of trees and which ones during dale prep. Leave all cedar and hemlock. 8 acres of this stand was cut in 2012 contract 17-11-01.
53	4110 - Sugar Maple Association	Poletimber Well	16.4	78	51-80	2015 - Some Sm regen but not a lot what did sprout is being browsed (doesn't help that Pvt landowner to North feeds deer) West side has more Fb in understory. OPIC - FMD: 2010- tand was treated in 2010 under contract 330090701, Stinky Pig Sale. FDF QUALITY. Stand basal area ranges from 80- 100. It is borderline on weather to treat now. Could do a light thinning or leave it for 10 years. Check in 2007 and see if sale would be feasible. Wildlife division would like to interplant white pine and hemlock after stand is treated.
55	6118 - Lowland Deciduous with Cedar	Poletimber Well	14.1	89	81-110	Remove from SCA. Previously listed POTENTIAL OLD GROWTH with FRIDAY CREEK RUNNING THROUGH STAND, SCA designation is for riparian zone management along creek.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
60	4134 - Aspen, Spruce/Fir	Poletimber Well	11.7	21	51-80	TREATED IN 1994, CONTRACT # 028-92-01 (RABBIT RUN ASPEN). Mix of sapling and pole. Small grass opening in the SW portion on compartment line.
62	4134 - Aspen, Spruce/Fir	Poletimber Well	25.2	40	81-110	Aspen stand that is starting to fall apart. Previous inventory at 38 years old.
64	4139 - Aspen, Mixed Deciduous	Poletimber Well	13.4	22	Immature	OPIC - FMD: OI Stand Year Origin was 1993
69	4110 - Sugar Maple Association	Sawtimber Well	50.6	85	81-110	2010- Stand was treated under contract 330090701, Stinky Pig Sale. Sugar maple regeneration with more to the north. Look at treatment next treatment period.
70	4130 - Aspen	Poletimber Well	16.7	30	51-80	Harvest this stand within the next 2 treatment periods.
71	4110 - Sugar Maple Association	Poletimber Well	18.3	80	81-110	2010- Stand was treated under contract 330090701, Stinky Pig Sale. Look at treating next treatment period.
72	4134 - Aspen, Spruce/Fir	Poletimber Medium	33.1	35	51-80	2015 - Could cut now or leave 10 years. Check with Biologist for age class dist. in compartment. OPIC - FMD: Close to being an A6, should be next time around.
74	4130 - Aspen	Sapling Well	13.1	13	Immature	This stand was harvested spring of 2002 under contract number 33-001-01-01 "Section 33 Aspen". Aspen stand with lowland pockets of cedar, tag alder, black ash, and some scattered balm. Trace amount of white pine.
75	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	80.2	106	51-80	Combined two E stands together. These stands have areas of 5 inch black ash, pockets of cedar, paper birch, red maple, and areas of 5 inch balm and aspen. 82 on the black ash. Trace amount of black spruce.
77	6120 - Lowland Cedar	Sawtimber Well	17.0	115	141-170	
78	4130 - Aspen	Poletimber Well	7.7	22	51-80	Treated in 1993 under contract 017-91-01 (Section 32 Aspen). DBH ranges from 4-7 inches.
84	6120 - Lowland Cedar	Poletimber Well	23.9	107	81-110	
85	6112 - Lowland Aspen	Poletimber Poor	24.2	28	51-80	2015 - High ground = A, Fb, Fsw; Lowground = Ash, P, Tag Alder. OPIC - FMD: Beaver have flooded areas within this stand. It was treated in 1987 under contract 045-84-01.
88	4130 - Aspen	Poletimber Poor	35.1	28	51-80	2015 - There is a nice stand ( 3 ac) of Sm in south central part of stand. OPIC - FMD: Treated in 1987. Contract 045-84-01.

S  
t  
a  
n  
d

Escanaba Mgt. Unit

## Report 8 – Forested Stands

Compartment: 97  
Year of Entry: 2017

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
90	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	16.3	107	51-80	2015 - Heavy to cedar, short lvd spp in pockets, lots of blowdown of all spp. Where blowdown is occurring filling in with Ash, Rm Fb, Fsb. OPIC - FMD: Low ground. Mixture of lowland conifer and lowland hardwood. Could be called a "q type" in some areas or an "e type " in others. Mix h hardwood is mixture of Y. birch, W. birch and Red Maple.
95	4130 - Aspen	Sapling Well	12.2	5	Immature	This stand was treated under contract 330090701, Stinky Pig Sale. There is some red maple stump sprouting. Low ground had some black ash, some balsam poplar. Some black cherry and a few open ground low areas with nothing. One pocket of mature red maple.
97	4139 - Aspen, Mixed Deciduous	Poletimber Well	34.1	34	81-110	Previous inventory at 34 with areas closer to 40-45 years old. This stand is a mix of aspen with balsam fir, and some red maple, paper birch, in upland areas and balm with cedar, spruce, black ash in lowland areas.



Stand	Cover Type	Acres	Managed Site	General Comments:
1	6220 - Alder/willow	7.2	No	2015- L0 with scattered 1 stick timber, timber = 10 -15' tall Wb, ash, Rm, Fb, T. OPIC - FMD: SCA DESIGNATION IS FOR RIPARIAN ZONE MANAGEMENT ALONG CREEK. HAS MINOR Q INCLUSIONS.
5	510- Water (OI)	1.4	No	OPIC - FMD: Rapid river.
8	6220 - Alder/willow	4.6	No	OPIC - FMD: Balm, 15-20' tall. Some reas of tag alder and cattails in the lower ground. Some areas have good white birch regeneration.
14	62399 - Marsh (OI)	6.0	No	OPIC - FMD: SCA DESIGNATION IS FOR RIPARIAN ZONE MANAGEMENT ALONG CREEK.
15	6220 - Alder/willow	2.7	No	OPIC - FMD: Beaver have flooded areas within this stand. It was treated in 1987 under contract 045-84-01.
17	6220 - Alder/willow	3.9	No	OPIC - FMD: Beaver have flooded areas within this stand. It was treated in 1987 under contract 045-84-01.
26	6220 - Alder/willow	3.4	No	2015- Tag alder and dead cedar. OPIC - FMD: Beaver have flooded areas within this stand. It was treated in 1987 under contract 045-84-01.
27	510- Water (OI)	4.0	No	OPIC - FMD: BEAVER CUTTING & FLOODING KILLED ASPEN IN AREA.
29	510- Water (OI)	10.4	No	2015- Beaver Flooding, took out Road. OPIC - FMD: OI Stand Year Origin was
34	510- Water (OI)	1.9	No	OPIC - FMD: BEAVER CUTTING & FLOODING KILLED ASPEN IN AREA.
35	6220 - Alder/willow	6.0	No	2015 - willow, catail, tag alder and dead timber. OPIC - FMD: Low ground. Mixture of lowland conifer and lowland hardwood. Could be called a "q type" in some areas or an "e type " in others. Mix hsardwood is mixture of Y. birch,W. birch and Red Maple.
36	62399 - Marsh (OI)	9.3	No	OPIC - FMD: BEAVER FLOODING; SIGNIFICANT STANDING DEAD TIMBER. SCA designation is for riparian zone along creek.
37	510- Water (OI)	13.8	No	Active Beaver Flooding. OPIC - FMD: SCA DESIGNATION IS FOR RIPARIAN ZONE MANAGEMENT ALONG CREEK.
47	3302 - Low Density Conifer Trees	7.5		Planted in spring of 2015 - Previously stand has been trenched, soon to be a R3. Look to combine this stand and stand 400 after regeneration survey. Previous OPIC - FMD: Harvest this stand when hardwoods to the west is cut. This looks like an old farm field that was planted with European larch. Long range goal is to try and convert this area back to Northern Hardwoods. Using the Kotar manual it could be planted to red pine and allow hdws to west seed in the open areas. Silviculturalist will be consulted. Stand treated in 2011 under contract 330030701, Engineer Road Hardwoods. FTP will be written for planting of pine.



Stand	Cover Type	Acres	Managed Site	General Comments:
48	6220 - Alder/willow	11.6	No	OPIC - FMD: SITE INDEX AND YEAR OF ORIGIN NOT AVAILABLE. SCA DESIGNATION IS FOR RIPARIAN ZONE MANAGEMENT ALONG SMALL NO-NAME CREEK THAT RUNS THROUGH STAND. 2015- old beaver flooding heavy to tag alder, scattered ash 5"; 1 stk, dead and live cedar.
49	7909 - Nonstocked (OI)	3.1	No	OPIC - FMD: County road 432 Right of Way.
63	62399 - Marsh (OI)	2.4	No	OLD BEAVER POND, FILLING IN WITH MARSH GRASS. There is an SCA designation is for riparian zone management.
66	62399 - Marsh (OI)	27.7	No	OPIC - FMD: BEAVER FLOODING; SIGNIFICANT STANDING DEAD TIMBER. SCA designation is for riparian zone along creek.
67	6299 - Lowland Shrub (OI)	7.9	No	OPIC - FMD: SCA designation is for riparian zone management along creek.
68	6233 - Wet Meadow	7.0	No	old beaver flooding, dead timber along North edge.
400	31029 - Grass (OI)	11.6	No	2015 - Trenched and ready to be planted. OPIC - FMD: East half of the opening will be planted to red pine. FTP was written July 20, 2011.