



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33103

Entry Year 2020

Acreage: 422

County Delta

Management Area: Dead Horse Moraines

Revision Date: 2018-06-25

Stand Examiner: Jason Collins

Legal Description:

T42N, R22W Sections 13 and 15

Identified Planning Goals:

Soil and topography:

The topography of this compartment consists of mostly level to slightly rolling terrain. The soils within this compartment include Roscommon, Karlin, Duel, Augres, Croswell, Cathro, Ensley, Tawas, and Chippeny.

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

This compartment is located in central Delta County and is very small and isolated from other state land.

Unique Natural Features:

The Rapid River traverses the compartment.

Archeological, Historical, and Cultural Features:

None known

Special Management Designations or Considerations:

The Rapid River Riparian area corridor on the east side of the compartment.

Watershed and Fisheries Considerations:

This compartment is separated by two regions (West and East). There are no fisheries concerns in the western region of this compartment.

The eastern region of this compartment contains the Main Branch of the Rapid River and an unnamed waterbody which serves as tributary to the Main Branch of the Rapid River. The unnamed waterbody is a designated Type 1 trout streams less than 50' width. A 300' buffer is recommended for the unnamed waterbody in riparian areas susceptible to Aspen regeneration (specifically stands 4 and 37). 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.

The Main Branch of the Rapid River is a designated Type 1 trout stream greater than 50' width. A 100' plus 5' per 1% increase in slope buffer; buffer is recommended for the Main Branch of the Rapid River to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

- Forest stands along the river have been retained to promote mature forest conditions (cavity trees, dead woody debris) and a riparian corridor. Mature forest providing numerous benefits to wildlife.
- Aspen harvesting has occurred in the past providing beaver with a food supply and providing habitat for other species that utilize early successional forest.
- Several grass openings including grass ringed pond to be reviewed by WLD Staff. Unlikely to be treated due to access limitations.

Mineral Resource and Development Concerns and/or Restrictions

Compartment 103: Sections 13 & 15, T42N-R22W, Delta County

Active sand/gravel pits are not located in the area, and sand & gravel potential within the compartment appears to be minimal. There is good limestone potential, but much of the compartment is covered by wetlands, which could inhibit development. No economic oil and gas production has been found in the UP. This area has not been previously leased or

explored for metallic minerals, but areas just to the south were previously explored for iron ore. Potential for development of iron ore here is considered low at this time, due to the depth of potential iron formations.

Vehicle Access:

The 120 acres in section 15 is surrounded by private land making it inaccessible to the general public. The east side of the compartment is accessible by the Friday road and the section 15 road.

Survey Needs:

None

Recreational Facilities and Opportunities:

There are no developed recreational facilities within this compartment. The east side of the compartment is accessible to walking and the main recreational opportunities are hunting and fishing. Other recreational opportunities are hiking and camping.

Fire Protection:

There are no hazard fuels in this area.

Additional Compartment Information:

The following reports from the Inventory are attached:

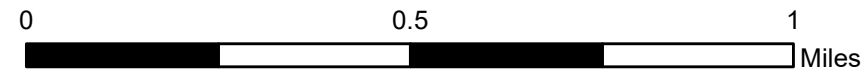
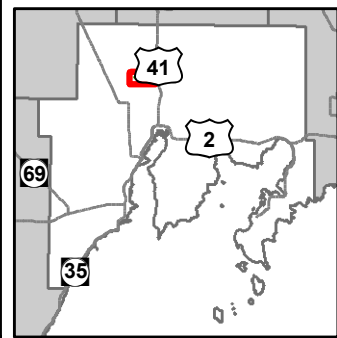
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

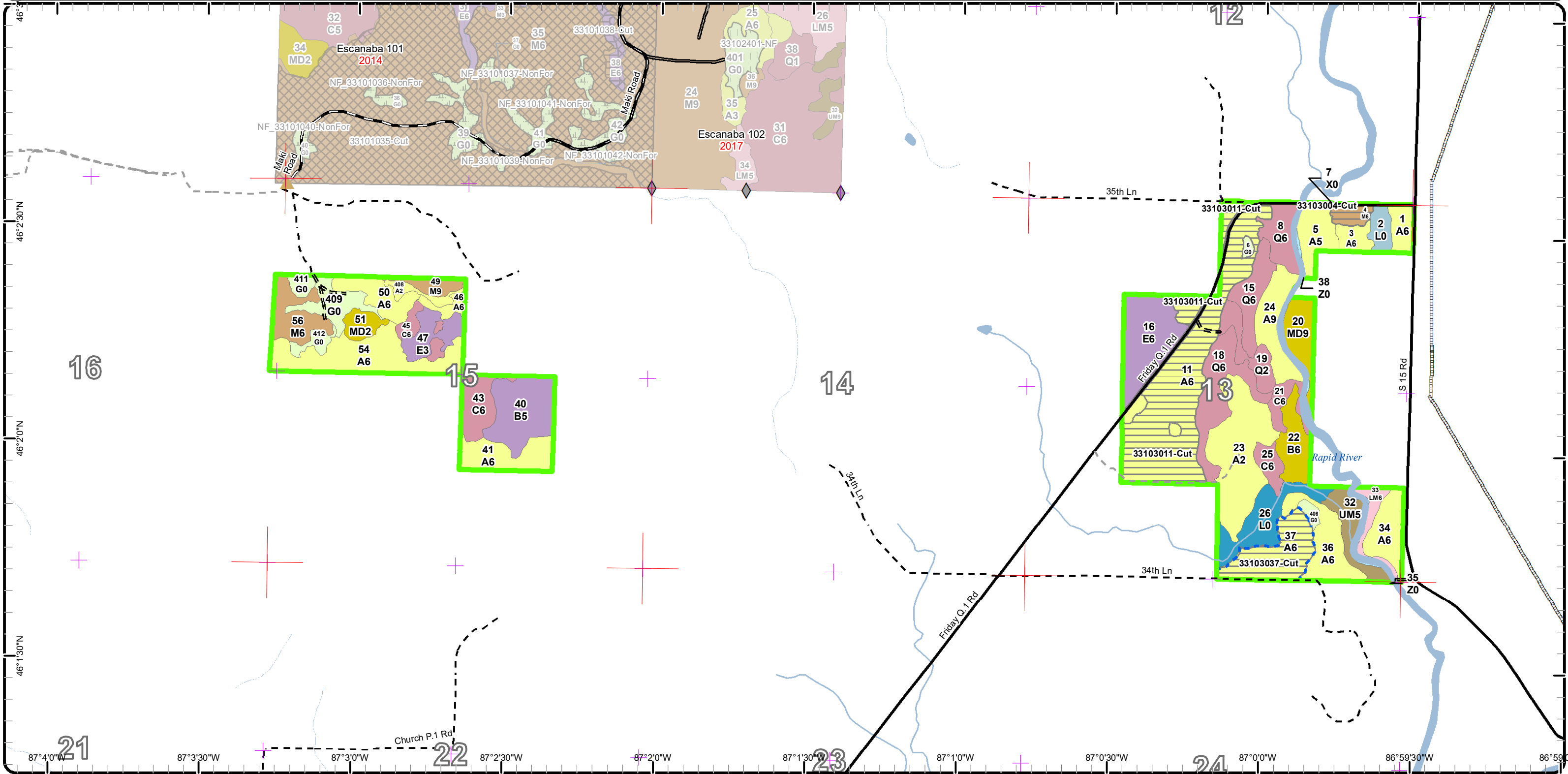
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 103
 T42N - R22W Sec. 13, 15
 County: Delta
 Unit: Escanaba
 Mgmt Area: Dead Horse
 Moraines
 YOE: 2020
 Acres: 422 GIS Calculated
 Examiner: Jason Collins
 Map Revised: 6/26/2018
 Map Phase: Web - Post



- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed non-forested wetland
- Lakes



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	32	15	74	61	17	0	0	13	0	0	0	0	0	0	0	0	212
Cedar	0	0	0	0	0	0	0	0	0	5	0	0	0	18	0	0	0	0	23
Herbaceous Openland	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Conifers	0	0	8	0	0	0	0	0	9	10	0	0	0	17	0	0	0	0	44
Lowland Deciduous	0	8	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	28
Lowland Mixed Forest	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5
Lowland Shrub	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Mixed Upland Deciduous	0	4	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	13
Northern Hardwood	0	0	0	0	0	0	0	0	0	11	4	0	0	0	0	0	0	4	18
Paper Birch	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	10	29
Upland Mixed Forest	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	9
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Total	45	12	40	15	74	70	17	25	9	67	4	0	0	35	0	0	0	14	425



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 103

Total Compartment Acres: 422

Commercial Harvest - 62
 Harvests with Site Condition - 17
 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	75	0	0	0	0	0	0	0	0	75
Northern Hardwood	4	0	0	0	0	0	0	0	0	4
Total	79	0	0	0	0	0	0	0	0	79

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	79	0	0	0	0	0	0	0	16	94
Next Step	0	0	0	0	0	0	79	0	0	79
Total	79	0	0	0	0	0	79	0	16	173



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	33103004-Cut	3.6	4119 - Mixed Northern Hardwoods	Poletimber Well	95	81-110	Harvest	Clearcut	411 - Northern Hardwood	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Clearcut all trees greater than 2 inch DBH. Retain all Cedar.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Any Mix of the overstory species.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2019											
6	33103006-NF	0.9	310 - Herbaceous Openland	Nonstocked	0	Unspecified	NonForestMgt	Herbaceous/Crop/Grass Planting	310 - Herbaceous Openland		Draft Proposal
Habitat Cut: No			Site Condition:								
<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.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2019											
11	33103011-Cut	58.5	4130 - Aspen	Poletimber Well	40	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Clearcut with Retention. Cut all trees 2 inch and greater. Leave all Cedar.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen											
<u>Regen:</u> Balsam Fir Red Maple											
<u>Other</u> Retention areas are approximately shown on map. Exact retention area(s) will be determined at time of Sale Preparation. Two low quality hardwood											
<u>Comment:</u> stands along the Friday Road were merged with the stand and will be clearcut.											
<u>Proposed Start Date:</u> 10/01/2019											
23	33103037-Cut	16.7	4130 - Aspen	Sapling Medium	15	Immature	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Field Boundary
Habitat Cut: No			Site Condition: Deer Wintering Area								
<u>Prescription</u> Cut all trees 3" dbh and greater except leave cedar and hemlock.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> A, Fb,Fs											
<u>Regen:</u>											
<u>Other</u> WLD approves.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2015											



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
406	33103406-NF	1.5	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Draft Proposal

Habitat Cut: No

Site Condition:

Prescription Specs: 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 Comment:

Proposed Start Date: 10/01/2019

409	33103409-NF	8.5	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Draft Proposal
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Habitat Cut: No

Site Condition:

Prescription Specs: 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 Comment:

Proposed Start Date: 10/01/2019

411	33103411-NF	2.1	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Draft Proposal
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Habitat Cut: No

Site Condition:

Prescription Specs: 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 Comment:

Proposed Start Date: 10/01/2019

412	33103412-NF	2.6	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Draft Proposal
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Habitat Cut: No

Site Condition:

Prescription Specs: 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 Comment:

Proposed Start Date: 10/01/2019

Total Treatment Acreage Proposed: 94.4

Report 4 – Site Conditions

Escanaba Mgt. Unit
Jason Collins : Examiner

Compartment: 103
Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	3H	3J
		With Condition	Not Available				
211	189	0	22	Aspen			22
22	17	0	5	Cedar			5
16	16	0	0	Herbaceous Openland			
43	8	0	35	Lowland Conifers		26	9
28	28	0	0	Lowland Deciduous			
5	0	0	5	Lowland Mixed Forest			5
18	18	0	0	Lowland Shrub			
13	4	0	9	Mixed Upland Deciduous			9
18	18	0	0	Northern Hardwood			
28	0	19	10	Paper Birch	19		10
9	0	0	9	Upland Mixed Forest			9
5	5	0	0	Urban			
5	5	0	0	Water			
422	309	19	94	Total Forested Acres	19	26	68
	73%	5%	22%	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	5B: Maintain for regeneration purposes	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Jason Collins : Examiner

Compartment: 103
Year of Entry: 2020

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Jason Collins : Examiner

Compartment: 103
Year of Entry: 2020

9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Unable to meet regeneration objectives based on deer wintering guidelines.							
11	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Unable to meet regeneration objectives due to deer wintering guidelines.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4134 - Aspen, Spruce/Fir	Poletimber Well	4.8	38	81-110	Stand was previously a F3. Aspen is over taking the Balsam Fir. Some low areas with Black Ash present. 2010 OI Comments=> This stand is an F3/A3 or F4/A3-F3 or A4/F3-A3. TS permit 1980 not finished. Original permit 31-79. Younger than 1980.
3	4130 - Aspen	Poletimber Well	4.1	36	51-80	Stand is a mix of Aspen, Red Maple and a few merchantable Balsam Fir. Understory is Balsam Fir. 2010 OI comments=> Final Harvest part of the Friday grade Aspen. Mix of A3-A6 and F3-F4. This stand could be typed out as an F stand with A3 understory as well. TS permit 1980 not finished. Original permit 31-79. Younger than 1980.
4	4119 - Mixed Northern Hardwoods	Poletimber Well	3.6	95	81-110	Low quality stand comprised mostly of Red Maple. Understory is dominated by Balsam Fir. Little sawlog quality hardwoods. Much of the Red Maple looks to have originated from stump sprouts. Western area has a good amount of Balsam Fir and Spruce. 2010 OI comments=> Small stand along the road. Removal area part of the Friday Grade Aspen 023-90-1.
5	4134 - Aspen, Spruce/Fir	Poletimber Medium	9.0	36	1-50	This stand is a combination of an A3 and F4 stand from the previous inventory. The aspen is located in the center of the stand and F type is surrounding. Cedar is located along the river and in small pockets around the A type. It also includes a ridge on the east side and the south with larger Aspen, Red Maple and Paper Birch.
8	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	8.7	78	81-110	This is a combination of a F type and C type stands. Stand has a high amount of species variability. Aspen, Hardwoods and merchantable Balsam Fir are located near the river. There are several dense stands of good quality Cedar both near and away from the river.
11	4130 - Aspen	Poletimber Well	60.6	40	81-110	Stand has good aspen throughout. There are two areas of low quality hardwoods in the north bordering the Friday Road that should be clearcut with the Aspen. => This stand was cut in 1980 under T.S. permit 17-80A. Hardwood left along County Road I-39. This stand is split into two stands by the road and originally stand 11 crossed both sides of the road. Pockets of A3 with A4 to A5 plots, overall fully stocked. TS 17-80A. TCR 7-16-80
15	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	9.6	85	81-110	=> This stand was part of stand 19 from the last treatment period. The stand is what is left from the Friday Road Aspen sale. There are locations with a higher % of cedar and lower areas with small diameters. Long term MO of Q.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	6118 - Lowland Deciduous with Cedar	Poletimber Well	20.0	60	81-110	Stand is a mix of E, Q and C types. A decent amount of Balm mixed through the entire stand. Cedar is scattered in patches in the Northwest near the corner and along the border with stand 11. Some small areas of the stand could be treated now but most needs more time to grow. OPIC - FMD: 2010 OI Comments=> This stand is a combination of 15 and 16 from the last treatment period with a mix of Q/C/P with a Q/E/F understory. Species in this stand include Tamarack, Red Maple, Balsam Fir, White Birch, Aspen, Balm, and Cedar. Previous OI Comments=> BALSOM DYING STAND WILL CONVERT TO P STAND WILL BE CLEAR-CUT.
18	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	16.7	125	81-110	Cedar mixed through the stand in groups. Areas with low BA of 50 to 60 found. => Wet Q type.Wet. Pockets of cedar. Thicker to the north with more cedar and F3. Small creek to the north.
19	6123 - Lowland Fir	Sapling Medium	7.6	15	Immature	Far south is high ground with Aspen and Balsam Fir mixed. North is low with Balsam Fir, Black Spruce, Tamarack and some Cedar. => Long term MO of A/F.Stand was cut in 2003, under permit # 15-00-01.
20	4199 - Other Mixed Upland Deciduous	Sawtimber Well	9.1	85	81-110	Aspen is dying out, leaving a northern hardwoods stand dominated by Red Maple. Cedar found in the stand was along the Rapid River. Stand has a ridge in the east and low ground along the River. There is an old road running north and south on the ridge. Access to the stand is through private. 2010 OI Comments=> SCA Riparian area corridor east side of the Rapid River.Old growth area. Let aspen fall down. Maple MO eventually. Thick F3.
21	6120 - Lowland Cedar	Poletimber Well	5.0	85	81-110	Cedar located along the Rapid River and also in the west along a drainage that runs into the Rapid River and around the ridge.
22	4193 - Birch, Aspen	Poletimber Well	9.7	85	111-140	Paper Birch and Aspen are beyond biological maturity and are dying out of the stand. Red Maple present is low quality and will eventually succeed the Paper Birch and Aspen. => SCA- Riparian area corridor west side of the Rapid River.
23	4130 - Aspen	Sapling Medium	29.0	15	Immature	Stand is a fully stocked A3 with aspen being about 30 feet tall and 1-3 inch DBH.=> This stand is a mix of A and F type. Most likely be an A6 stand someday.Stand was cut in 2003, under permit # 15-00-01. Check next time around to see how it is regenerating.
24	4139 - Aspen, Mixed Deciduous	Sawtimber Well	12.7	85	111-140	The far west part of this stand could be treated. => SCA- Riparian area corridor west side of the Rapid River.
25	6120 - Lowland Cedar	Poletimber Well	4.2	120	141-170	Cedar is located in the center of the stand, Black Ash in the north and east and Balsam Fir in the south.=> Heavily stocked cedar stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	4319 - Mixed Upland Forest	Poletimber Medium	8.7	40	81-110	Cedar is located along the Rapid River. A stream cuts through the stand in the north.
33	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	4.8	60	81-110	Stand includes slope going down to flats along the river. Cedar is located adjacent to river. => SCA Riparian area corridor along east side of Rapid River. Floodplain along Rapid River below aspen clear cut bluff. Nice old growth stand.
34	4130 - Aspen	Poletimber Well	10.1	38	81-110	Aspen is not ready for harvest yet. Look at this stand next inventory for possible harvest. => Full stocked stand will be an A6 next Treatment Period.
36	4139 - Aspen, Mixed Deciduous	Poletimber Well	13.2	38	81-110	Good A6 stand with a fully stocked F3 understory. Area of the stand that is to the north and west of the opening are more of an F6 with Aspen being more scattered.
37	4134 - Aspen, Spruce/Fir	Poletimber Well	16.7	50	81-110	Stand is PU 1 of Hidden Pond SBW. Canopy consists of 50% Quaking Aspen, 45% Balsam Fir, and 5% Mixed Hardwoods. Subcanopy consists of a Balsam Fir, High to Fully stocked.
40	6116 - Lowland Birch	Poletimber Medium	18.6	80	1-50	2010 OI comments=> Very poor site with open areas and scrubby birch with some cedar in it. This stand has some plots that may be more L types. Wet, hummocky terrain. Junk. Poor site, interspersed with cedar in row-like, natural strips aligned N-S.
41	4130 - Aspen	Poletimber Well	12.0	26	51-80	Road runs east/west along the south line. Access into the stand is unknown. Some blow down present from a few years ago. OPIC - FMD: TS 15-92-2. Mead Salvage Sale.
43	6120 - Lowland Cedar	Poletimber Well	9.3	120	81-110	Average Cedar is 6 in DBH and only 3 sticks tall. Balsam Poplar and Paper Birch are beginning to die out. Relatively open understory with little regeneration. In the North/West near the corner is couple acre area of Paper Birch, Balsam Poplar and Aspen. I cored one of the Paper Birch in this area at 65 YO.
45	6120 - Lowland Cedar	Poletimber Well	4.0	120	141-170	Dense Cedar. Shorter lived species are dying out. OPIC - FMD: Nice cedar stand. Some blowdown. Tall, straight trees.
46	4130 - Aspen	Poletimber Well	2.7	26	81-110	Good Quaking Aspen Stand. A few Balsam Fir in the canopy. Balsam Poplar is present in the wetter areas. The western part of the stand contains some mature Aspen with Balsam Fir beneath. 2010 OI comments=> This is a new stand cut with the Mead Salvage Sale. Mead Salvage Sale, TS 15-92-2.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
47	6118 - Lowland Deciduous with Cedar	Sapling Well	7.8	4	Immature	Pole timber includes some Cedar, Paper Birch and Balsam Fir that was left from the last harvest. ==>This stand was cut under the Four Corners sale in 2014 33-014-11-01. Retention area of cedar left.
49	4110 - Sugar Maple Association	Sawtimber Well	3.9	181	81-110	Stand Still has an average BA of 80-90. Could treat next rotation. 2010 OI comments=> Open and raspberries throughout much of the stand with some higher BA areas. Look at the possibility to treat next treatment period. Was cut heavy. Raspberries throughout the stand; grass/sedge.. No maple reproduction.
50	4130 - Aspen	Poletimber Well	8.8	32	81-110	Stand is a mix of mostly Aspen and Balsam Poplar. BP is located in the wetter areas. Stand also has a moderate amount of Balsam Fir and W Spruce in the understory that could be merchantable at time of harvest. OPIC - FMD: 2010 OI comments=> A3 to A6 stand with places of A3 to F2 in understory Spotty reproduction.
51	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	4.3	4	Immature	Regeneration is sporadic. Red Maple regen has been browsed heavily by deer =>Unit 2 of the Four Corners sale. The stand was cut in 2014.
54	4130 - Aspen	Poletimber Well	24.4	30	81-110	Stand 54 is the result of merging stands 44, 53 and 54. The aspen in the west has a origin of 1985 and the west 1992. There is a small area of E type located in the center north. There is also two patches of Cedar, one in the far south west corner and one in the east.
56	4112 - Maple, Beech, Cherry Association	Poletimber Well	10.5	81	51-80	Stand is mostly Red Maple in the south and a mix of Sugar Maple and Basswood in the north. =>This stand was cut under the Four Corners sale completed in 2014.
408	4139 - Aspen, Mixed Deciduous	Sapling Medium	2.9	10	Immature	Stand is regenerating from a G0. A couple small openings still



Stand	Cover Type	Acres	Managed Site	General Comments:
2	622 - Lowland Shrub	4.2	No	Some merchantable Tamarack, Balsam Fir and Cedar. Stand is dominated by Tag Alder. Other shrubs/saplings include Balsam Fir, Black Ash, Cedar and Holly
6	310 - Herbaceous Openland	0.9	No	herbaceous opening beginning to fill in with primarily White Spruce and Balsam Fir and some Balsam Poplar. Spruce and Balsam Fir are mostly still seedlings or saplings less than 10 feet tall. Balsam Poplar are saplings 1-3 inches DBH and 10-20 feet tall.
7	122 - Road/Parking Lot	5.1	No	This stand is the Friday Road.
26	629 - Mixed non-forested wetland	14.3	No	Open Marsh2010 OI comments=> N stand that surrounds stand 28.
35	500 - Water	2.1	No	Rapid River
38	500 - Water	3.3	No	Rapid River
406	3102 - Grass	1.6	No	Grass opening around the wildlife pond.
409	3102 - Grass	8.5	No	Opening is slowly filling in mainly with White Spruce, Balsam Poplar, Tamarack and Balsam Fir.
411	3102 - Grass	2.1	No	Opening is filling in mainly with White Spruce and Balsam Fir but also includes Tamarack, Q. Aspen and Balsam Poplar. If left go the stand should be considered forested during the next inventory.
412	3102 - Grass	2.6	No	Opening is filling in with Red Maple and White Spruce.