



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33039

Entry Year 2018

Acreage: 1,529

County Menominee

Management Area: Green Bay Lake Plain

Revision Date: 2016-06-24

Stand Examiner: Dan Racine

Legal Description:

T36N, R25W, Sections 1, 2, and 3

Identified Planning Goals:

The major cover types within this compartment are aspen, cedar and mixed upland deciduous and mixed upland forest types. The treatments within this compartment are designed to enhance the age class distribution and regeneration of the existing overstory species in the upland and lowland cover types. The majority of the upland cover type treatments are aspen and several stands within the upland cover types consist of pine regeneration. The treatments within the upland cover types will enhance the pine, aspen, mixed conifer and deciduous species. The treatments within the lowland cover types will include cedar retention pockets and enhance the both the mixed deciduous and mixed conifer regeneration.

Soil and topography:

Soil and Topography: The soils in this compartment include Pickford muck silt clay loam, Deford Wainola Rousseau complex, Rousseau fine sand, Deford mucky fine sand, and Tawas Deford complex. The compartment is nearly level with some ridges and depressions. A few of the stands proposed for treatments may require operating in the soil types during the snow free season to enhance conifer reproduction.

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

The compartment includes County Road 551, 7 Mile Marsh Road, and North Fox Road. A significant portion of the roads are also dedicated to the Forest Island ORV Trail. There are a couple of parcels in this compartment that are private lands with the majority in state land. There may be some private property access needs for the treatments of some stands within the compartment

Unique Natural Features:

The Big Cedar River traverses the western side of the compartment.

Archeological, Historical, and Cultural Features:

None known

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

The Big Cedar River is a major water course that traverses the west edge of the compartment. Forest stands on the east side of the river have been designated a Special Conservation Area to promote mature conditions. This will be valuable for riparian wildlife. For example, bald eagle nest sites can be provided by managing for old, large trees while minimizing disturbance. This compartment is predominantly aspen forest with scattered stands of pine, northern hardwood, and lowland conifer cover types. Much of this acreage will continue to be managed for aspen, providing benefits to early-successional wildlife species (such as chestnut-sided warbler, ruffed grouse, deer, hare, and bobcats). Other aspen stands are showing a natural inclination to convert over time (10 to 50 years) to white pine or balsam fir. Due to the large loss of upland conifer forest over the past century, and recent disease concerns, these natural conversions will be encouraged through silvicultural prescriptions.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Trenton Formation underlies the glacial drift and is quarried for stone west of Escanaba. This area has not been leased for metallic exploration previously. A gravel pit is located in Sections 12 and there is potential on the upland

drumlins. No economic oil and gas production has been found in the UP.

Vehicle Access:

Access to this compartment is County Road 551, 7 Mile Marsh Road, and North Fox Road. The majority of the compartment has roads that are open to the public with access through state land. The stands west of the Big Cedar River and a portion throughout the compartment have access through private.

Survey Needs:

There will be some private line work on some of the stands proposed for treatment.

Recreational Facilities and Opportunities:

The Forest Island ORV Trail traverses throughout this compartment. The Big Cedar River provides canoe and fishing opportunities. There are hunting, bird watching, and other recreational activities available throughout this compartment.

Fire Protection:

There are no significant fire danger problems within this compartment. The largest water source is the Big Cedar River with some intermittent streams and tributaries throughout the compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

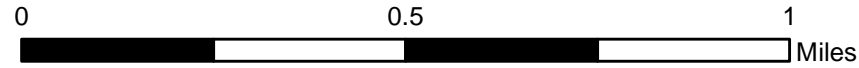
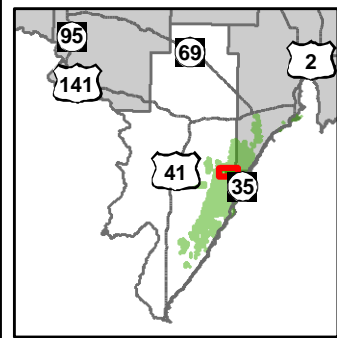
- Total Acres by Cover Type and Age Class
- Cover Type by Harvest Method
- Proposed Treatments – No Limiting Factors
- Proposed Treatments – With Limiting Factors
- Stand Details (Forested and Nonforested)
- Dedicated and Proposed Special Conservation Areas
- Site Condition Details

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

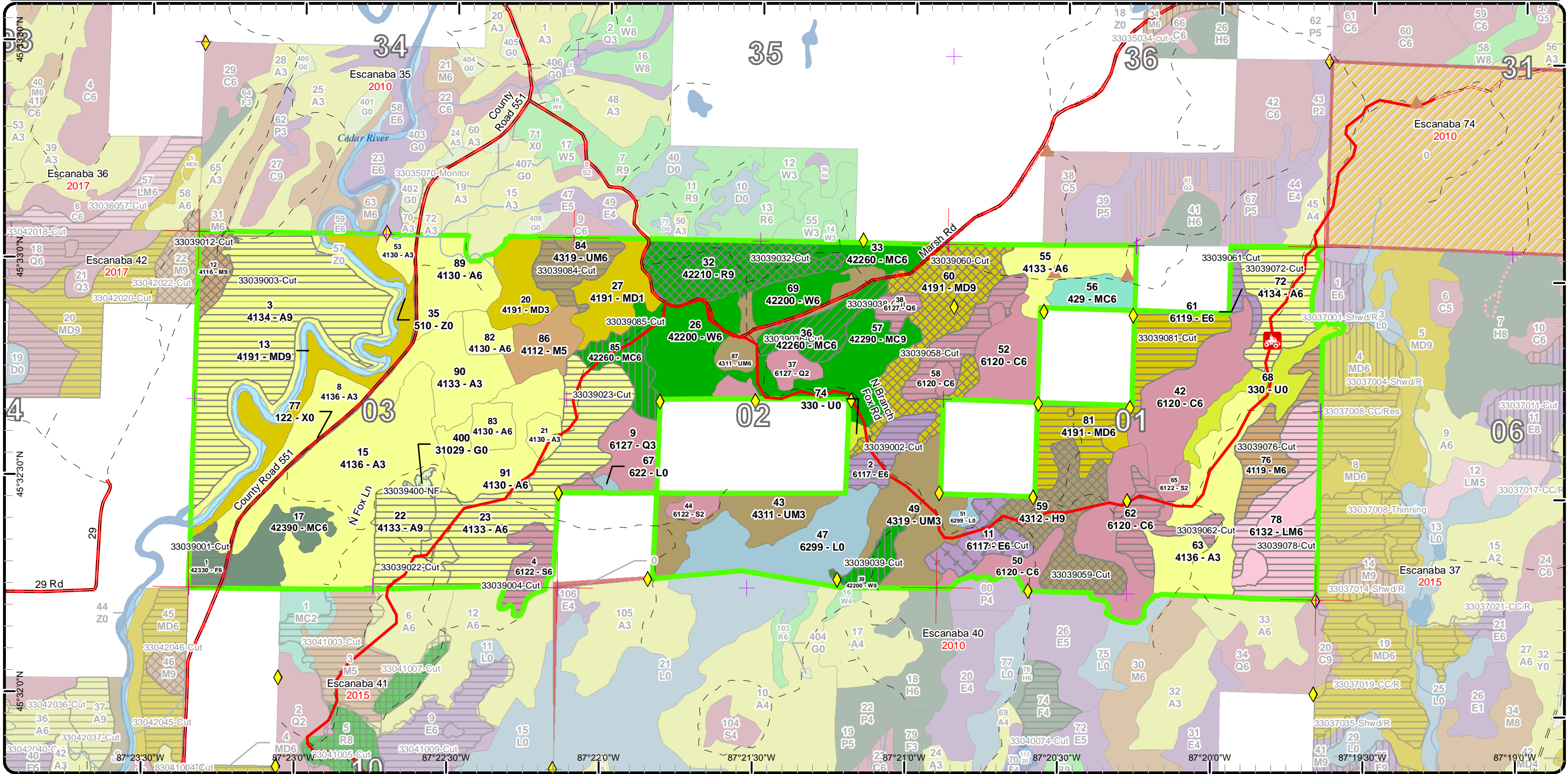
- Base feature information, stand boundaries, cover types, and numbers
- Proposed treatments
- Site condition boundaries
- Details on the road access system

Cover Type & Treatments Map

Compartment: 39
 T36N R25W Sec. 01-03
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Green Bay Lake Plain
 YOE: 2018
 Acres: 1529 GIS Calculated
 Examiner: Dan Racine
 Map Revised: 6/23/2016
 Map Phase: Web-Post

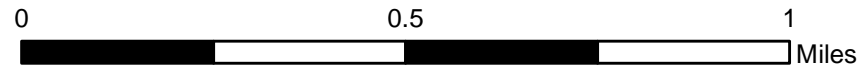
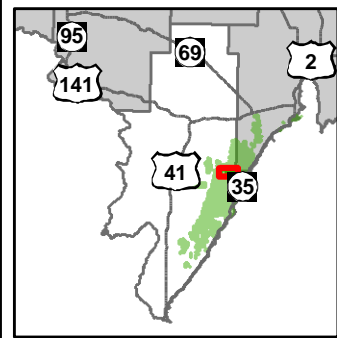


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|----------------------------------|-------------------------------------|-----------------------------|
| — Miris Corners | ▨ Clearcut (w/Reserves) | ■ 122 - Roads/Parking Lot |
| ⊕ Remonumented Section Corners | ▨ Other Treatment - See Comments | ■ 310 - Herbaceous Openland |
| ◆ Survey Grade GPS Corners | ▨ Salvage | ■ 330 - Low Density Trees |
| ▲ Berms | ▨ Thinning (Crown, Low, Systematic) | ■ 500 - Water |
| 🚗 ORV Trails | ▨ Shelter Wood (w/Reserves) | ■ 622 - Lowland Shrub |
| — Designated ATV Trails | ■ 411 - Northern Hardwood | ■ Lakes |
| — Designated ORV Route | ■ 413 - Aspen Types | |
| — County Gravel Roads | ■ 419 - Mixed Upland Deciduous | |
| — Gravel Roads | ■ 422 - Natural Pines | |
| — Poor Dirt Roads | ■ 423 - Other Upland Conifers | |
| — Closed Roads | ■ 429 - Mixed Upland Conifers | |
| — Rivers | ■ 430 - Upland Mixed Forest | |
| ▭ Compartment Boundary | ■ 611 - Lowland Deciduous Forest | |
| ▨ Selection (Group, Single Tree) | ■ 612 - Lowland Coniferous Forest | |
| | ■ 613 - Lowland Mixed Forest | |

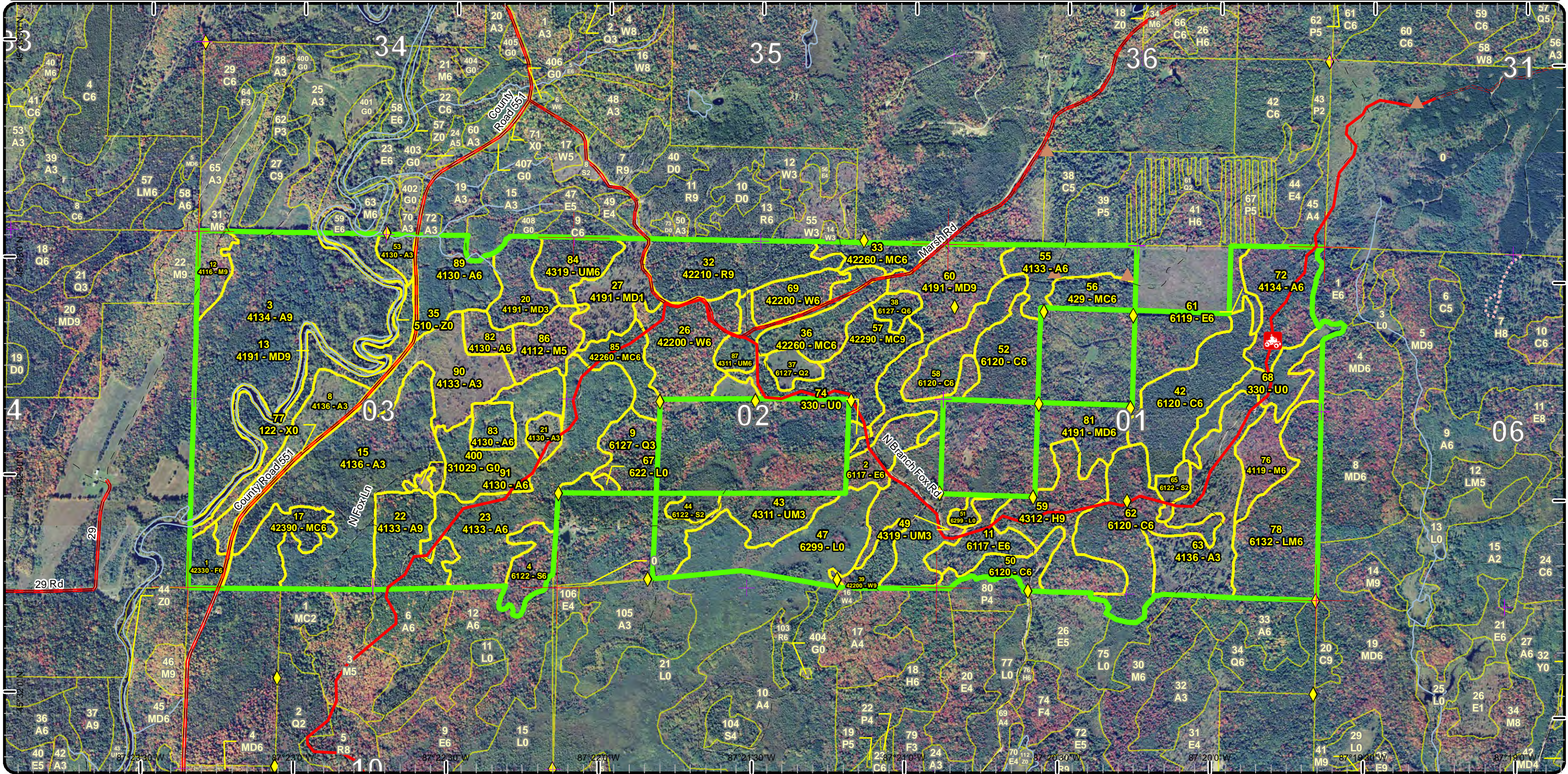


Stand Boundary Map

Compartment: 39
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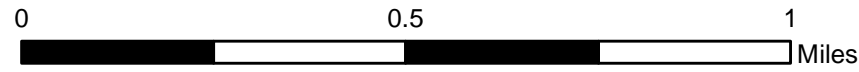
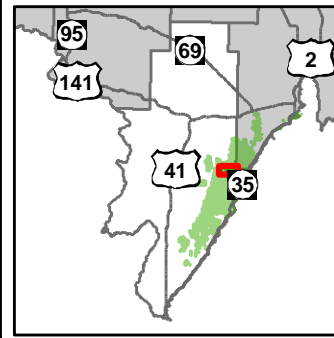


- Miris Corners
 - + Remonumented Section Corners
 - ◆ Survey Grade GPS Corners
 - ▲ Berms
 - ORV Trails
 - Designated ATV Trails
 - - - Designated ORV Route
 - County Gravel Roads
 - Gravel Roads
 - - - Poor Dirt Roads
 - - - Closed Roads
 - Rivers
 - Compartment Boundary
 - Stand Boundaries
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 429 - Mixed Upland Conifers
 - 430 - Upland Mixed Forest
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
 - 122 - Roads/Parking Lot
 - 310 - Herbaceous Openland
 - 330 - Low Density Trees
 - 500 - Water
 - 622 - Lowland Shrub

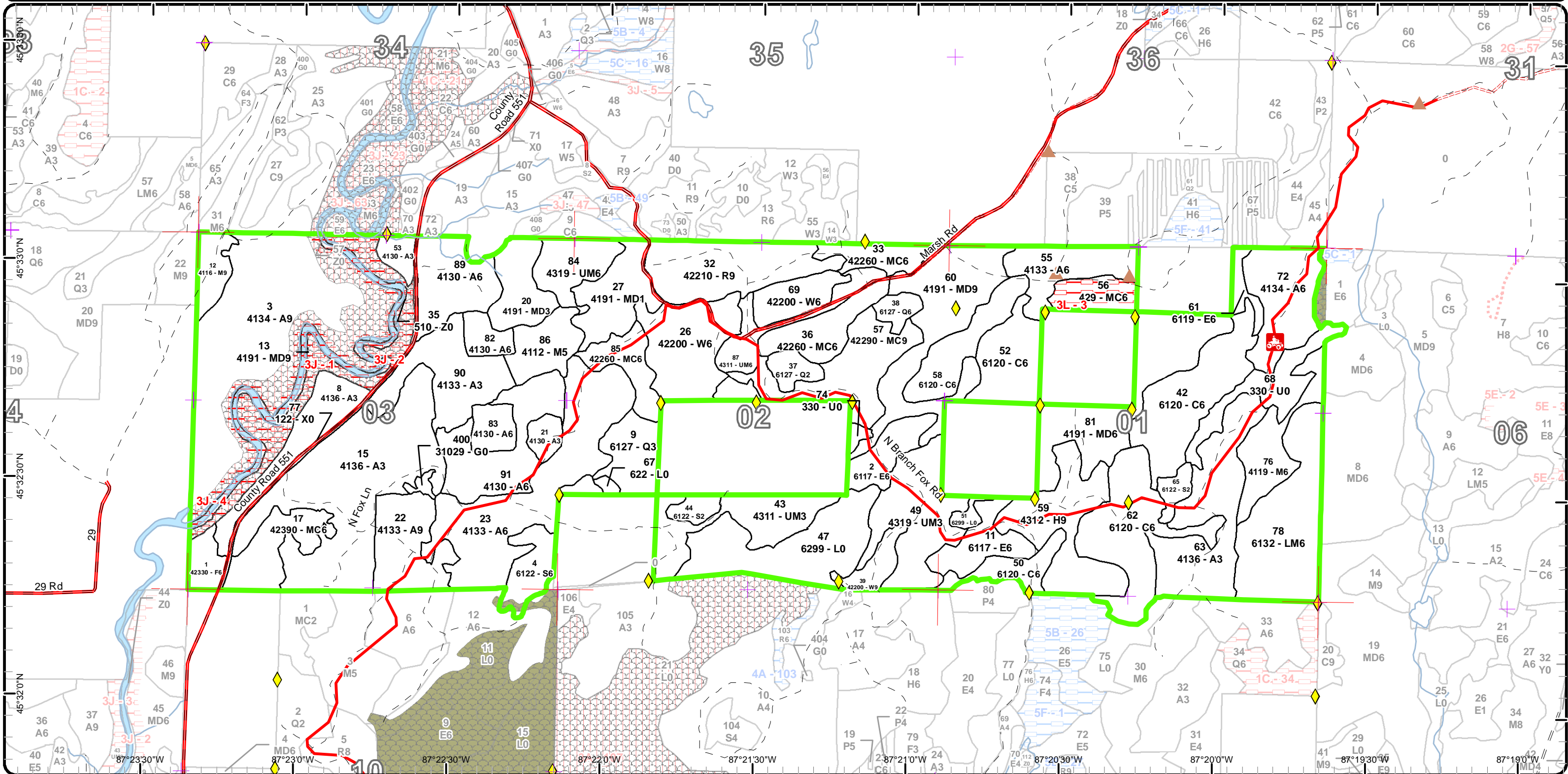


Special Conservation Areas & Site Conditions Map

Compartment: 39
 T36N R25W Sec. 01-03
 County: Menominee
 Unit: Escanaba
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- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ▲ Berms
- ORV Trails
- Designated ATV Trails
- - - Designated ORV Route
- County Gravel Roads
- Gravel Roads
- - - Poor Dirt Roads
- - - Closed Roads
- Rivers
- Compartment Boundary
- · - Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- Potential Old Growth
- Other SCA (No Category Assigned)



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	117	0	152	40	100	152	0	0	0	0	0	0	0	0	0	0	0	561
Cedar	0	0	0	0	0	0	0	0	0	0	22	24	41	44	12	0	0	0	143
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	0	0	0	39
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Low-Density Trees	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Lowland Conifers	0	11	18	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	34
Lowland Deciduous	0	0	0	0	6	0	0	0	0	14	16	0	0	0	0	0	0	0	36
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	52	0	0	0	0	0	0	52
Lowland Shrub	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Lowland Spruce/Fir	0	5	0	0	0	0	0	0	5	16	0	0	0	0	0	0	0	0	26
Mixed Upland Deciduous	0	24	0	19	0	47	33	0	0	0	50	0	0	0	0	0	0	0	173
Natural Mixed Pines	0	0	0	12	0	0	0	0	0	0	34	0	19	0	0	0	0	15	79
Northern Hardwood	0	0	0	0	0	0	0	0	22	17	10	0	0	0	0	0	0	0	49
Red Pine	0	0	0	0	0	0	0	0	39	0	0	0	0	0	0	0	0	0	39
Upland Conifers	0	0	0	0	0	0	0	0	0	21	0	0	0	0	12	0	0	0	33
Upland Mixed Forest	0	0	39	44	0	0	0	0	0	0	0	0	0	0	0	0	0	18	101
Upland Spruce/Fir	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	8
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Water	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
White Pine	0	0	0	0	0	0	0	0	49	9	0	0	0	0	0	0	0	0	57
Total	99	157	57	227	46	147	193	0	115	77	138	76	60	44	63	0	0	33	1528



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2018

Acres of Harvest

Compartment 39

Total Compartment Acres: 1,529

Commercial Harvest - 637
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	236	0	0	0	0	0	0	0	0	236
Cedar	35	0	0	0	0	0	0	0	0	35
Hemlock	0	39	0	0	0	0	0	0	0	39
Lowland Conifers	6	0	0	0	0	0	0	0	0	6
Lowland Deciduous	20	0	0	0	0	0	16	0	0	36
Lowland Mixed Forest	39	0	0	0	0	0	0	0	0	39
Lowland Spruce/Fir	16	0	0	0	0	0	0	0	0	16
Mixed Upland Deciduous	44	50	0	0	0	0	0	0	0	94
Natural Mixed Pines	0	0	0	0	15	19	0	0	0	33
Northern Hardwood	22	10	0	0	0	0	0	0	0	32
Red Pine	0	39	0	0	0	0	0	0	0	39
Upland Mixed Forest	16	0	0	0	0	0	0	0	0	16
Upland Spruce/Fir	8	0	0	0	0	0	0	0	0	8
White Pine	0	0	0	0	9	0	0	0	0	9
Total	440	139	0	0	23	19	0	16	0	637

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	637	0	0	0	0	0	0	2	0	639
Next Step	0	39	0	0	0	0	602	0	0	641



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
1	33039001-Cut	8.0	42330 - Upland Fir	Poletimber Well	52		Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal

Habitat Cut: No Site Condition:

Prescription Clearcut with retention: Cut all trees except leave a patch with cedar and ensure a minimum of a 100 foot along the cedar river.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventry)

Treatments:

Acceptable balsam fir, aspen, balm mix of overstory species.

Regen:

Other The stand has some younger trees with high amounts of balsam fir.

Comment:

Proposed Start Date: 10/01/2017

2	33039002-Cut	14.0	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	80	111-140	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Proposal
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Habitat Cut: No Site Condition:

Prescription Clearcut with retention: Cut all trees except leave hemlock and leave patches of heavy cedar intact. Leave some non-merchantable ash areas.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventry)

Treatments:

Acceptable Maple, ash, mixed conifer and hemlock.

Regen:

Other This is a lowland ash type with more ash than maple and some cedar and hemlock.

Comment:

Proposed Start Date: 10/01/2017

3	33039003-Cut	106.5	4134 - Aspen, Spruce/Fir	Sawtimber Well	56	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No Site Condition:

Prescription Clearcut with reserves: Cut all trees 3 inches dbh and greater, leaving retention of 100 feet along the Cedar River and the pocket of cedar with the center.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventry)

Treatments:

Acceptable Aspen, mixed upland conifers.

Regen:

Other Access will be best from private landowner to south with potential access from landowner to the north.

Comment:

Proposed Start Date: 10/01/2016

4	33039004-Cut	16.1	6122 - Black Spruce	Poletimber Well	81	51-80	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Proposal
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Habitat Cut: No Site Condition:

Prescription Clearcut with reserves: Cut all trees, leave retention along the boundary line. Thin the red pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventry)

Treatments:

Acceptable Spruce, lowland hardwoods.

Regen:

Other There is a small piece of red pine that can be thinned out.

Comment:

Proposed Start Date: 10/01/2017



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
11	33039011-Cut	16.4	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	90	81-110	Harvest	Salvage	612 - Lowland Coniferous Forest	Two-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Salvage cut- Cut all remaining hardwood species and salvage the blowdown trees. No standing hemlock or cedar will be cut.

Specs:

Next Step

Treatments:

Acceptable lowland hardwood and mixed conifer species.

Regen:

Other Stand was cut last inventory cycle, significant blowdown.

Comment:

Proposed Start Date: 10/01/2017

12	33039012-Cut	10.3	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	91	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Selection: Retain approximately 70-80BA throughout.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern hardwood species present in stand. Acceptable alternate regeneration of aspen.

Regen:

Other This stand will be through private. Stand to the west is being harvested as well.

Comment:

Proposed Start Date: 10/01/2016

22	33039022-Cut	27.9	4133 - Aspen, Mixed Pine	Sawtimber Well	52	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with reserves: Cut all trees except leave retention in the heaviest white pine understory area. Leave a few scattered pine.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, white pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

23	33039023-Cut	69.7	4133 - Aspen, Mixed Pine	Poletimber Well	46	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention: Cut all trees except leave some pine for seed trees. Retention in an area with high pine regeneration.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, white pine

Regen:

Other

A lot of white pine regeneration throughout this stand. Long term MO of white pine and aspen. Fully stocked aspen stand moving into older age classes.

Comment:

Proposed Start Date: 10/01/2017



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
32	33039032-Cut	39.4	42210 - Natural Red Pine	Sawtimber Well	74	81-110	Harvest	Single Tree Selection	4221 - Natural Red Pine	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u>			Selection: Retain approximately 70 Basal area. Create larger canopy gaps and encourage scarification to promote red pine. Gaps may be up to 1/2								
<u>Specs:</u>			acre in size.								
<u>Next Step</u>			Monitoring, Natural Regen (Re-Inventory); SitePrep, Scarification								
<u>Treatments:</u>											
<u>Acceptable</u>			Red pine. Acceptable alternate regeneration of white pine.								
<u>Regen:</u>											
<u>Other</u>			Some existing hardwood regeneration.								
<u>Comment:</u>											
<u>Proposed Start Date:</u>			10/01/2017								
36	33039036-Cut	18.5	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	110	81-110	Harvest	Crown Thinning	4220 - Natural White Pine	Two-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u>			Release/Thinning: Remove more pine to open up the understory. Residual Basal area will vary to open canopy enough to release the existing								
<u>Specs:</u>			regeneration								
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>			White pine, mixed conifers.								
<u>Regen:</u>											
<u>Other</u>			Thinning out the heavier areas of pine to release more regeneration.								
<u>Comment:</u>											
<u>Proposed Start Date:</u>			10/01/2017								
38	33039038-Cut	5.7	6127 - Lowland Pine	Poletimber Well	95	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u>			Clearcut with retention: Cut all trees except leave about 40-50 BA of pine on the high ground. May leave some scattered pine in the low ground								
<u>Specs:</u>			spruce.								
<u>Next Step</u>			Monitoring, Natural Regen (Re-Inventory)								
<u>Treatments:</u>											
<u>Acceptable</u>			Pine, Spruce, and balsam fir. Acceptable red maple regeneration.								
<u>Regen:</u>											
<u>Other</u>			This stand will be clearcut in the low ground areas and shelterwood/seed in the high ground pine ridges.								
<u>Comment:</u>											
<u>Proposed Start Date:</u>			10/01/2017								
39	33039039-Cut	8.5	42200 - Natural White Pine	Sawtimber Well	80	81-110	Harvest	Shelterwood	4220 - Natural White Pine	Two-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u>			Shelterwood: Release the saplings opening up the overstory. The residual will vary depending on the amount of existing regeneration, with 40 BA								
<u>Specs:</u>			residual up to 70BA.								
<u>Next Step</u>			Monitoring, Natural Regen (Re-Inventory)								
<u>Treatments:</u>											
<u>Acceptable</u>			Pine, balsam fir, and acceptable alternate regeneration of aspen.								
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u>			10/01/2017								



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
58	33039058-Cut	17.2	6120 - Lowland Cedar	Poletimber Well	96	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Proposal

Habitat Cut: No **Site Condition:**

Prescription Clearcut with retention: Cut all trees except leave some yellow birch and leave the higher density cedar canopy areas.
Specs:

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

Acceptable Ash, maple, and conifer species.
Regen:

Other Cedar retention shown on treatment boundary map.
Comment:

Proposed Start Date: 10/01/2017

59	33039059-Cut	39.1	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	135	171-200	Harvest	Group Selection	4319 - Mixed Upland Forest	Two-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Group selection: Harvest the areas of heavy hardwoods and leave the pure hemlock areas. Leave some yellow birch, white pine and cedar in the areas harvested.
Specs:

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

Acceptable Mixed conifers and mixed hardwood species.
Regen:

Other Some pockets of pure hemlock and pockets of mixed hardwood species. The ORV trail runs through the stand.
Comment:

Proposed Start Date: 10/01/2017

60	33039060-Cut	49.7	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	95	171-200	Harvest	Group Selection	4319 - Mixed Upland Forest	Two-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Group selection/Selection with retention. Harvest trees in areas with little to no hemlock, or cedar and leave out areas of higher canopy percentages of hemlock and cedar. Leave some pine and yellow birch in the areas harvested.
Specs:

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

Acceptable Maple, birch, mixed conifer species.
Regen:

Other Only those hemlock will be harvested that are necessary to harvest other trees designated. This will open up the areas where shorter lived/Non hemlock and Pine trees exist. Determine leave areas at time of sale prep.
Comment:

Proposed Start Date: 10/01/2017

61	33039061-Cut	5.5	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	35		Harvest	Clearcut	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Clearcut - cut all trees except leave white pine and cedar on the edge of stand.
Specs:

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

Acceptable Balm, ash, paper birch, and mixed conifer species.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
62	33039062-Cut	17.5	6120 - Lowland Cedar	Poletimber Well	121	171-200	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Two-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Clearcut with reserves: Within the treatment boundary area, cut all trees, staying out of small diameter black ash areas.
Specs:

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

Acceptable Maple, birch, aspen, balm, ash, and acceptable mixed conifer species.
Regen:

Other The treatment boundaries are identified on the treatment map.
Comment:

Proposed Start Date: 10/01/2017

72	33039072-Cut	31.4	4134 - Aspen, Spruce/Fir	Poletimber Well	35		Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clearcut with reserves cut all trees except leave white pine area in the west side alone.
Specs:

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

Acceptable Aspen, mixed conifer and maple.
Regen:

Other This stand has spruce budworm. Add spec for 50 inch standard trail consideration language to the contract.
Comment:

Proposed Start Date: 10/01/2017

76	33039076-Cut	21.7	4119 - Mixed Northern Hardwoods	Poletimber Well	78	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clearcut: all trees cut except leave cedar, pine and retention along the boundary line.
Specs:

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

Acceptable maple, birch, ash, and mixed conifer species.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

78	33039078-Cut	38.8	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	105	171-200	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clearcut with reserves: Cut all trees except leave areas of higher concentration of cedar cover type. Areas are shown on treatment boundary map.
Specs:

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

Acceptable Maple, birch, ash, and mixed conifer species.
Regen:

Other Areas of retention shown on the treatment boundary map.
Comment:

Proposed Start Date: 10/01/2017



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
81	33039081-Cut	44.0	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	46	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Clearcut with reserves. Leave retention around the cabin site and leave higher cedar volume areas.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, maple, birch, mixed conifer species.

Regen:

Other Retention on boundary map.

Comment:

Proposed Start Date: 10/01/2017

84	33039084-Cut	16.3	4319 - Mixed Upland Forest	Poletimber Well	90	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clearcut with retention: Cut all trees except leave hemlock and retain higher density cedar areas.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Ash, maple, aspen, and mixed conifer species.

Regen:

Other Treatment retention shown on boundary map.

Comment:

Proposed Start Date: 10/01/2017

85	33039085-Cut	14.7	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	98	81-110	Harvest	Shelterwood	429 - Mixed Upland Conifers	Two-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Retain a residual of 50 BA of pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Pine and mixed upland conifers.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

400	33039400-NF	1.8	31029 - Grass (OI)	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: No

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. Also sharecropping could be considered for this opening.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2016

Total Treatment Acreage Proposed: 638.7

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Racine : Examiner

Compartment: 39
Year of Entry: 2018

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Acres	
		With Condition	Not Available		3J	3L
562	544	0	19	Aspen	19	
142	142	0	0	Cedar		
39	39	0	0	Hemlock		
2	2	0	0	Herbaceous Openland		
22	22	0	0	Low-Density Trees		
34	34	0	0	Lowland Conifers		
36	36	0	0	Lowland Deciduous		
52	52	0	0	Lowland Mixed Forest		
50	50	0	0	Lowland Shrub		
26	26	0	0	Lowland Spruce/Fir		
172	139	0	33	Mixed Upland Deciduous	33	
79	79	0	0	Natural Mixed Pines		
49	49	0	0	Northern Hardwood		
39	39	0	0	Red Pine		
33	21	0	12	Upland Conifers		12
101	101	0	0	Upland Mixed Forest		
8	8	0	0	Upland Spruce/Fir		
6	6	0	0	Urban		
19	0	0	19	Water	19	
58	58	0	0	White Pine		
1,529	1,447		82	Total Forested Acres	70	12
	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	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	33	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Racine : Examiner

Compartment: 39
Year of Entry: 2018

2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cedar River							
3	Unavailable	3L: Other wildlife concerns	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



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
	Potential Old Growth		SCA Removal	3
Comments Does not meet SCA criteria.				
	Potential Old Growth		SCA Removal	72
Comments Does not meet SCA criteria.				



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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42330 - Upland Fir	Poletimber Well	8.0	52		Yoongr baln and Aspen withb.fir around 50-60
2	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	14.0	80	111-140	OPIC - FMD: OI Stand Year Origin was 1896 for cedar. On the SBW list. Look for treatment.
3	4134 - Aspen, Spruce/Fir	Sawtimber Well	124.4	56	111-140	Multiple stands combined into one. The understory consists of high amounts of balsam fir with a mix of black ash, spruce, and ironwood. Areas of aspen and upland conifer with a small cedar patch and hardwood mixed. Aspen in decent shape, no significant spruce budworm damage found. Some blowdown of the spruce and fir.
4	6122 - Black Spruce	Poletimber Well	16.1	81	51-80	Combined spruce with lowland hardwood and small piece of red pine. Red pine in this stand.
8	4136 - Aspen, Mixed Conifer	Sapling Well	22.9	7	Immature	TS Update=> This stand was harvested under the Big Cedar Bank Timber sale (33-001-08-01). F2 now but should fully regenerate to an A3 stand by next treatment period.
9	6127 - Lowland Pine	Sapling Well	17.8	14	Immature	Spruce with white pine mix.
11	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	16.4	90	81-110	TS Update=> This stand was cut under the Fox Road East sale (33-009-08-01).
12	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	10.3	91	81-110	
13	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	32.8	55	81-110	SCA stand along the Cedar River. Riparian corridor between county road 551 and the cedar river.
15	4136 - Aspen, Mixed Conifer	Sapling Well	91.2	26	Immature	OPIC - FMD: Large block of a3 with scattered pine left. Areas of good white pine reproduction.
17	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	21.0	85	51-80	OPIC - FMD: This stand was harvested. Everything taken out but cedar,hemlock, and a few hardwood species(Black cherry, Yellow birch)
20	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	18.6	23	Immature	This stand consists of areas of hemlock,pine,and balsam in overstory with w3 and M in the understory. Understory good throughout with W regeneration. Cedar is also left and a q3 type in some areas of the stand.
21	4130 - Aspen	Sapling Well	5.8	6	Immature	OPIC - FMD: TS Update=> This stand was unit 3 of the 7 mile central (33-02-08-01). OI comments=> Mix of aspen and birch. Leave existing white pine for regeneration. Long term MO of A/W. Open in some areas.
22	4133 - Aspen, Mixed Pine	Sawtimber Well	27.9	52	81-110	Multi stemmed paper birch. Variable ages of aspen.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	4133 - Aspen, Mixed Pine	Poletimber Well	69.7	46	51-80	A lot of white pine regeneration throughout this stand. Long term MO of white pine and aspen. Fully stocked aspen stand moving into older age classes.
26	42200 - Natural White Pine	Poletimber Well	35.4	75	51-80	TS Update=> This stand was unit 5 of the 7 mile central sale (33-02-08-01). The aspen was removed from the overstory. Some aspen regen here with a significant amount of pine advanced regeneration.
27	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	23.7	6	1-50	OPIC - FMD: TS Update=> This stand was unit 4 of the 7 mile central (33-02-08-01). Larger diameter pine was cut and the shorter lived species. Red pine, White Pine, and cedar left. Opened up pretty good with a mix of A, M, F, W and possibly Red pine regen expected.
32	42210 - Natural Red Pine	Sawtimber Well	39.4	74	81-110	TS Update=> This stand was units 9 and 10 of the 7 mile central (33-02-08-01). The stand was cut to about 80 BA. Could look at next treatment period to open up more to try for Red pine regeneration. Some white pine regen and red pine regeneration along the roadway and a couple of pockets within the stand.
33	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	11.8	20	51-80	Stand is filling in with white pine, red pine, red maple, and aspen.
36	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	18.5	110	81-110	White pine and red pine overstory with aspen, red maple and white pine understory
37	6127 - Lowland Pine	Sapling Medium	10.5	6	Immature	TS Update=> This stand was unit 7 of the 7 mile central sale (33-02-08-01). Quite a few sub merchantable spruce left.
38	6127 - Lowland Pine	Poletimber Well	5.7	95	81-110	High ground pine and low ground black spruce with pine.
39	42200 - Natural White Pine	Sawtimber Well	8.5	80	81-110	Cut the last treatment period. Mix of W/R type. Sapling white pine with red maple and aspen. Did not age the pine.
42	6120 - Lowland Cedar	Poletimber Well	40.7	114	111-140	Cedar stand, dominant to cedar with a mix of other species.
43	4311 - Pine, Aspen Mix	Sapling Well	28.6	24	Immature	
44	6122 - Black Spruce	Sapling Medium	5.1	74		OPIC - FMD: Poor quality stand.
49	4319 - Mixed Upland Forest	Sapling Well	39.3	16	Immature	Lots of white pine with areas of red maple and aspen saplings.
50	6120 - Lowland Cedar	Poletimber Well	12.0	135		E/L to the east and C9 to the west.
52	6120 - Lowland Cedar	Poletimber Well	24.1	100	111-140	Cedar stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
53	4130 - Aspen	Sapling Well	5.9	7	Immature	This stand was harvested under the Big Cedar Bank sale (33-001-08-01).
55	4133 - Aspen, Mixed Pine	Poletimber Well	22.9	42		Some of the aspen is large enough to cut. Cut next treatment period. Look to winter cut only.
56	429 - Mixed Upland Conifers	Poletimber Well	12.1	135	111-140	OPIC - FMD: There is some 6 to 7 stick aspen, 30" dbh white pine.
57	42290 - Natural Mixed Pine	Sawtimber Well	34.3	95	51-80	Residual log sized red pine and white pine with pockets of aspen red maple and white pine and red pine 3 inches dbh.
58	6120 - Lowland Cedar	Poletimber Well	21.5	96	81-110	This stand is a mix of high and low ground. The cedar is sparse in some areas.
59	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	39.1	135	171-200	Pure pockets of hemlock, pure pockets of red maple and hardwoods.
60	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	49.7	95	171-200	Mixed stand of hemlock, Red maple, yellow birch, paper birch, and pine.
61	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	5.5	35		OPIC - FMD: E3/L0 on the east side of this stand. Some white pine and cedar.
62	6120 - Lowland Cedar	Poletimber Well	43.5	121	171-200	This stand is C to Q to H in some areas. Low drainage in south portion. Trace amounts of white pine, aspen, yellow birch, balm, balsam fir, green ash, black spruce, and hemlock in the overstory.
63	4136 - Aspen, Mixed Conifer	Sapling Well	49.3	7	Immature	TS Update=> This stand was cut under the Fox Road East sale (33-009-08-01). There are quite a few larger pine left here. Mix of white pine and F in the understory.
65	6122 - Black Spruce	Sapling Medium	5.3	6	Immature	TS Update=> This stand was harvested under the Fox Road East sale (33-009-08-01). There are some seed trees left here.
69	42200 - Natural White Pine	Poletimber Well	13.9	75	51-80	TS Update=> This stand was unit 8 of the 7 mile central sale (33-02-08-01). The aspen was removed from the overstory. Some aspen regen here with quite a bit of mostly W and some R advanced regeneration. All the pine was left here.
72	4134 - Aspen, Spruce/Fir	Poletimber Well	31.4	35		This stand has SBW larger spruce with aspen other species.
76	4119 - Mixed Northern Hardwoods	Poletimber Well	21.7	78	81-110	Trace amounts of Cedar and White Pine.
78	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	52.1	105	171-200	This stand is a mix of higher and low ground. Stand contains areas where the BA's are higher to Cedar than hardwood and places where the hardwood BA's are higher than Cedar.

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Escanaba Mgt. Unit

Report 7 – Forested Stands

Compartment: 39
Year of Entry: 2018

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
81	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	46.9	46	111-140	There is older aspen to the south portion of 81. The age was taken in NW piece.
82	4130 - Aspen	Poletimber Well	7.7	45		Year of origin is 1980. Likely cut with stand 89 next treatment period.
83	4130 - Aspen	Poletimber Well	8.9	36		Aspen stand with 7 inch average dbh.
84	4319 - Mixed Upland Forest	Poletimber Well	17.7	90	51-80	Low wet areas throughout the stand with black ash swales. Mostly ash type with pockets of hemlock.
85	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	14.7	98	81-110	
86	4112 - Maple, Beech, Cherry Association	Poletimber Medium	16.8	85	1-50	TS Update=> This stand was unit 2 of the 7 mile central (33-02-08-01). Unit 1 was separated into new stand 90. This stand has some red maple stump sprouting and aspen regeneration with white pine in the understory. Red maple was left in the overstory for shade of the white pine regeneration that existed.
87	4311 - Pine, Aspen Mix	Poletimber Well	15.3	20	Immature	Residual white pine, red pine and aspen. Heavy understory of white pine.
89	4130 - Aspen	Poletimber Well	26.5	27		OPIC - FMD: White pine regen in this stand.
90	4133 - Aspen, Mixed Pine	Sapling Well	33.1	6	Immature	OPIC - FMD: TS> This stand was unit 1a and 1b of the 7 mile central (33-02-08-01). Aspen is regenerating here. Some white pine in the understory.
91	4130 - Aspen	Poletimber Well	34.5	20		OPIC - FMD: Some white pine regeneration.



Stand	Cover Type	Acres	Managed Site	General Comments:
35	510- Water (OI)	18.7	No	OPIC - FMD: OI Stand Year Origin was
47	6299 - Lowland Shrub (OI)	45.8	No	Lowland shrub with scattered pole sized red maple.
51	6299 - Lowland Shrub (OI)	2.7	No	Dead ash and cedar.
67	622 - Lowland Shrub	1.4	No	Small tag alder and lowland brush with mixed trees.
68	330 - Low-Density Trees	19.7	No	Lowland brush with scattered ash, spruce other low density trees.
74	330 - Low-Density Trees	1.9	No	OPIC - FMD: Bog. No site index available
77	122 - Road/Parking Lot	6.4	No	CO RD 551
400	31029 - Grass (OI)	1.8	No	North end will convert to a/w/f type in the near future.