



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33002

Entry Year 2019

Acreage: 1,428

County Menominee

Management Area: Nathan-Banat Moraines

Revision Date: 2017-06-30

Stand Examiner: Dan Beaudou

Legal Description:

T37N-R27W, Sections 7, 8, and 9.

Identified Planning Goals:

This year of entry (YOE), management goals are focused on managing for a mixture of both vegetative and wildlife diversity. This compartment contains a wide variety of cover types ranging from upland aspen and maple types to lowland cedar and mixed conifer types. This YOE several mixed hardwood stands will be treated to increase the overall health and growth rates of the stands. There is also conifer stands affected by spruce budworm (SBW) that will be treated due to forest health concerns. Good distribution of aspen age class with some stands ready for harvest next YOE.

Soil and topography:

Level to rolling, some hills. Upland: Lupton-Cathro association and Cathro-Ensley complex. Lowland: Longrie-Onaway, Onaway, Summerville, and Summerville-Longrie; all fine sandy loams.

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

The majority of the compartment borders state land on the north and south lines. Adjacent to the east and west lines is privately ownership. However there are some private in-holdings within this compartment. Most of the in-holdings are used primarily as recreation properties but one landowner does have Christmas trees that are trimmed for commercial

Unique Natural Features:

This area has the potential to harbor many rare and endangered species including red-shouldered hawk, goshawk, eagle, osprey, great blue heron rookery, moose and wolf. In the form of vegetative unique and natural features, this area has the potential for calypso, ram's head lady'sslipper, marsh grass-of-parnassu, Assiniboia sedge and climbing fumitory in northern hardwoods.

Archeological, Historical, and Cultural Features:

None known to exist.

Special Management Designations or Considerations:

None known to exist.

Watershed and Fisheries Considerations:

The Little Cedar River is located just east of the compartment. A small tributary flows through the north east corner of section 9. No fisheries concerns.

Wildlife Habitat Considerations:

Ecological Context: This compartment is within a broad plain of loamy ground moraine. Drumlin ridges, trending northeast to southwest, are common throughout. Historically the ridge tops were covered with northern hardwood forests of sugar maple, beech, hemlock, cedar, and yellow birch. Between the ridges, swamps of cedar, tamarack, black spruce, or bog were common. Small knolls within wetlands were often dominated by hemlock and white pine. Wind throw was the most common natural disturbance regime. During the past 100 years much of this landscape was converted to agriculture. Aspen forest increased greatly and hemlock and white pine declined due to early-day logging practices.

West half of compartment dominated by aspen forest and small openings. This habitat is favored by many of the popular game species such as deer, grouse, woodcock, and bear. Within this area, a few hardwood, an aspen, and a lowland deciduous with cedar are being proposed for treatment. The east half of the compartment is the more common drumlin topography with ridges of northern hardwood alternating with swamps of cedar. Several hardwood treatments are proposed, and maintenance of vegetative diversity is recommended. The east half of the compartment will provide habitat

for wildlife that favor more mature forest. Management activities will maintain the habitat.

Mineral Resource and Development Concerns and/or Restrictions

This compartment has not been leased for metallic mineral exploration, and metallic mineral potential is considered low this far east. Sand/gravel pits are not located in the area but potential is good on the upland drumlins. There could be some dolostone potential where bedrock is near the surface. No economic oil and gas production has been found in the UP.

Vehicle Access:

This area has good access via both branches of the Detemple Road. Extensive road work was completed in 2006 on both branches so only typical grading should be needed for the near future.

Survey Needs:

Six survey corners common with private property would need to be set for the proposed treatments.

Recreational Facilities and Opportunities:

There are no officially designated or maintained sites. However the area is used for hunting, trapping and dispersed camping.

Fire Protection:

No significant control problems foreseen due to the lack of explosive fuels and an abundance of natural fuel breaks, such as low wet stands of timber and lowland brush. Low wet areas will impede fire suppression as well as fire spread.

Additional Compartment Information:

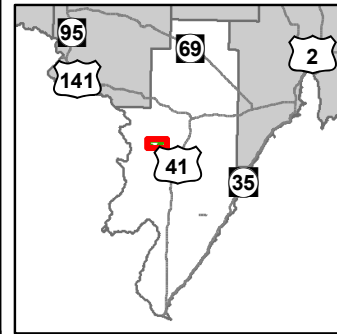
The following reports from the Inventory are attached:

- 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**

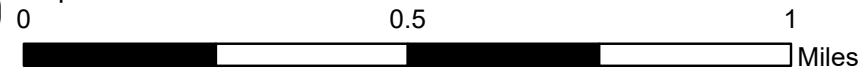
The following information is displayed, where pertinent, on the attached compartment maps:

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

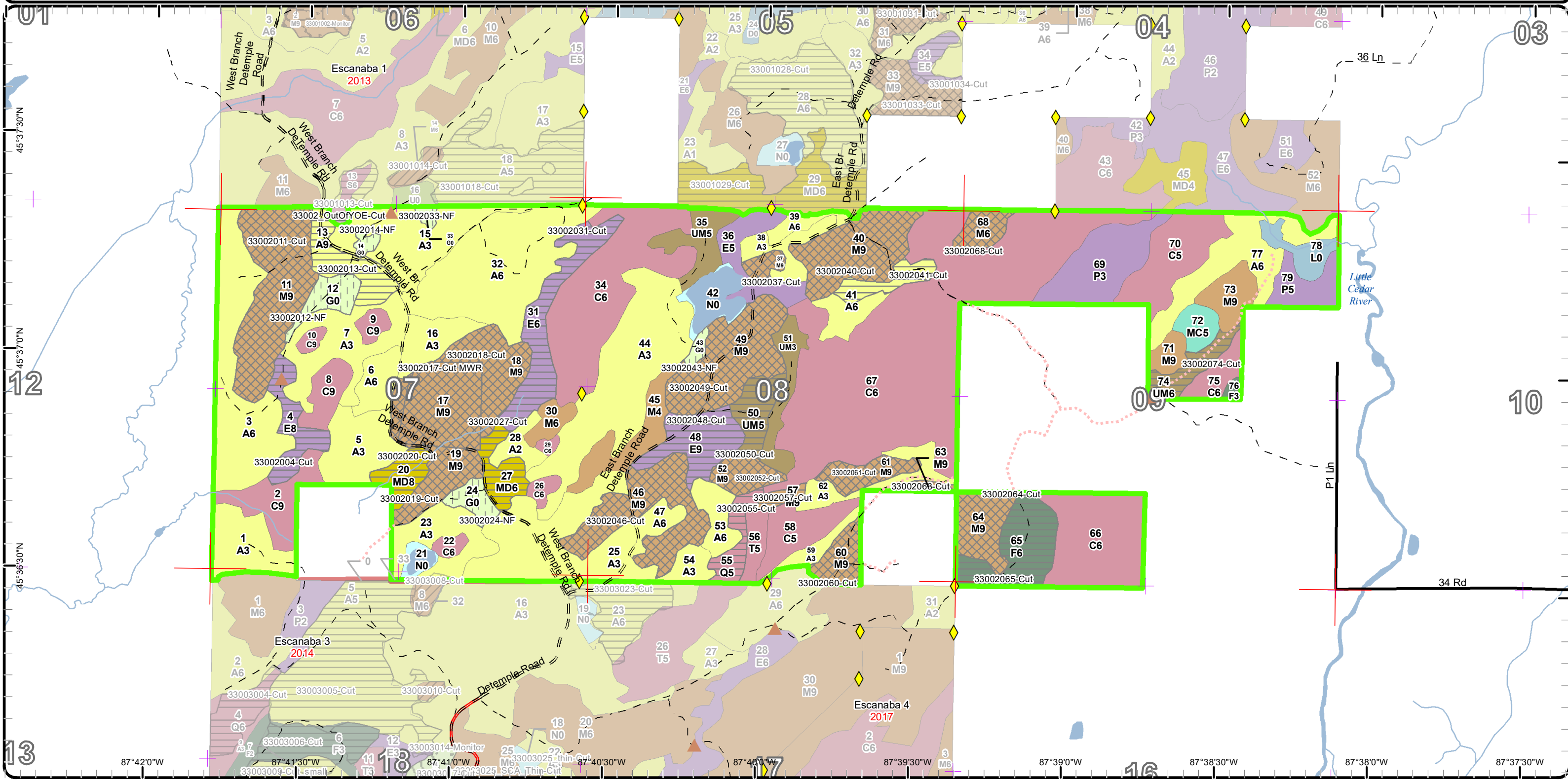
Cover Type & Treatments Map



Compartment: 2
 T37N R27W Sec. 7,8,9
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Nathan-Banat
 Moraines
 YOE: 2019
 Acres: 1428 GIS Calculated
 Examiner: Dan Beaudou
 Map Revised: 7/5/2017
 Map Phase: Web-Post

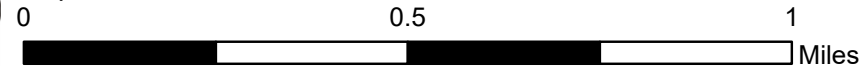
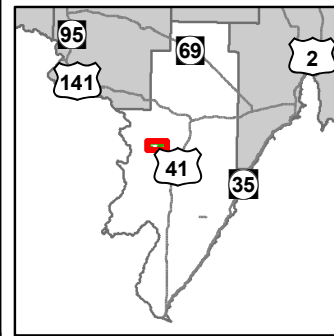


- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ▭ Counties
- ▲ Berms
- Paved Roads
- County Gravel Roads
- Gravel Roads
- - Poor Dirt Roads
- ⋯ Closed
- Streams
- Lakes and Rivers All
- ▭ Compartment Boundary
- ▨ Selection (Group, Single Tree)
- ▭ Clearcut (w/Reserves)
- ▭ Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes

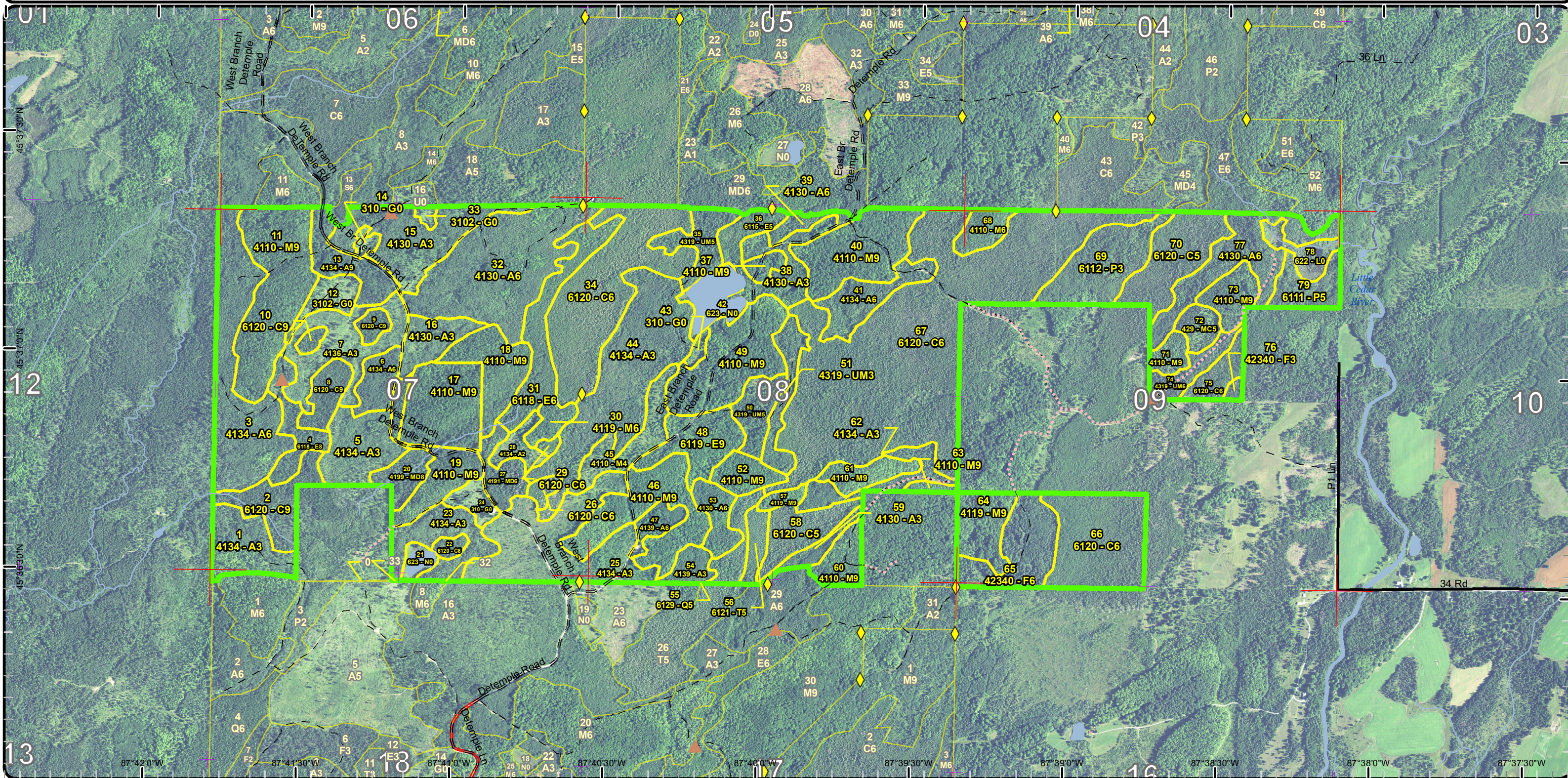


Stand Boundary Map

Compartment: 2
 T37N R27W Sec. 7,8,9
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Nathan-Banat
 Moraines
 YOE: 2019
 Acres: 1428 GIS Calculated
 Examiner: Dan Beaudo
 Map Revised: 7/5/2017
 Map Phase: Web-Post

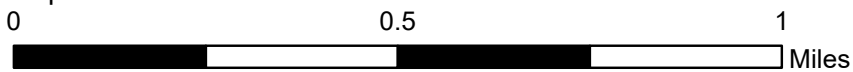


- Miris Corners
 - + Remonumented Section Corners
 - ◆ Survey Grade GPS Corners
 - Counties
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 - 623 - Emergent Wetland

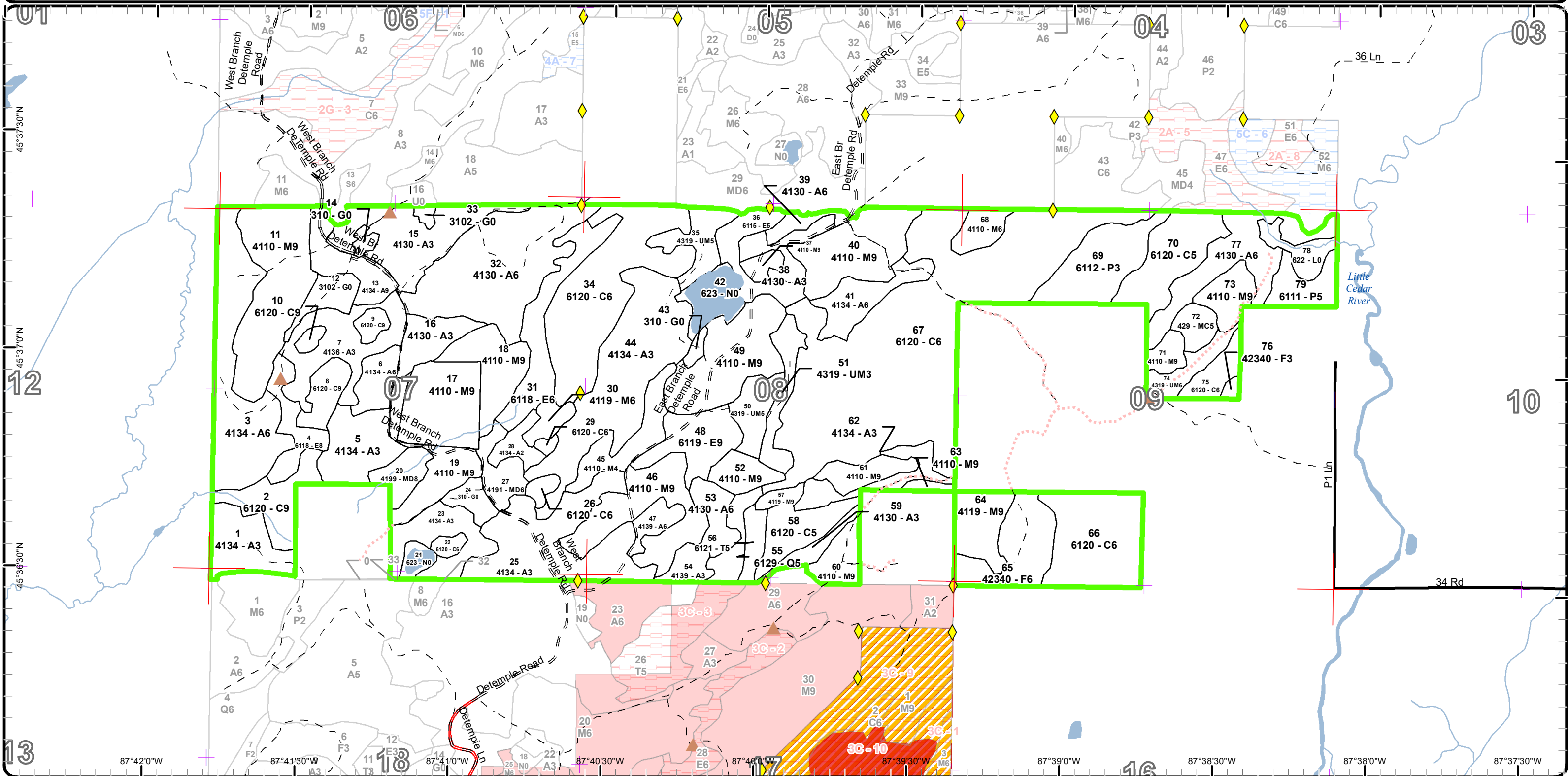


Special Conservation Areas & Site Conditions Map

Compartment: 2
 T37N R27W Sec. 7,8,9
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Nathan-Banat
 Moraines
 YOE: 2019
 Acres: 1428 GIS Calculated
 Examiner: Dan Beaudo
 Map Revised: 7/5/2017
 Map Phase: Web-Post



- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- Counties
- ▲ Berms
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Closed
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Stand Boundaries
- Ecological Reference Areas
- Natural Areas Legally Dedicated
- Cold Water Streams
- Contiguous Resource Area



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	83	93	195	95	20	0	0	0	0	0	0	0	0	0	0	0	0	485
Cedar	0	0	0	0	0	0	0	0	0	0	16	102	233	13	0	0	0	0	364
Herbaceous Openland	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Lowland Aspen/Balsam Poplar	0	0	0	0	12	28	0	0	0	0	0	0	0	0	0	0	0	0	40
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9
Lowland Deciduous	0	0	0	0	0	0	0	0	33	25	0	15	0	0	0	0	0	0	73
Lowland Shrub	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Marsh	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Mixed Upland Deciduous	0	0	0	0	10	0	0	0	9	0	0	0	0	0	0	0	0	0	19
Northern Hardwood	0	0	0	0	0	0	0	0	21	100	190	0	0	0	0	0	0	0	311
Tamarack	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Upland Conifers	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Upland Mixed Forest	0	12	0	0	33	0	0	0	0	0	0	0	0	0	0	0	0	0	45
Upland Spruce/Fir	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	24	26
Total	45	95	93	202	158	48	0	0	63	125	215	117	233	13	0	0	0	24	1429



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2019

Acres of Harvest

Compartment 2

Total Compartment Acres: 1,428

Commercial Harvest - 427
 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	23	0	0	0	0	0	0	0	0	23
Cedar	1	0	0	0	0	0	0	0	0	1
Lowland Conifers	9	0	0	0	0	0	0	0	0	9
Lowland Deciduous	57	0	0	0	0	0	0	0	0	57
Mixed Upland Deciduous	19	0	0	0	0	0	0	0	0	19
Northern Hardwood	3	270	0	0	0	0	0	0	0	273
Upland Mixed Forest	21	0	0	0	0	0	0	0	0	21
Upland Spruce/Fir	24	0	0	0	0	0	0	0	0	24
Total	158	270	0	0	0	0	0	0	0	427

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	427	0	0	0	0	0	0	20	0	448
Next Step	0	29	0	29	0	29	426	0	0	512
Total	427	29	0	29	0	29	426	0	20	959



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
67	33002_OutOfY OE-Cut	1.4	6120 - Lowland Cedar	Poletimber Well	110	201+	Harvest	Clearcut with Retention	6129 - Mixed Coniferous Lowland Forest	Even-Aged	Field Boundary

Habitat Cut: No

Site Condition:

Prescription Final harvest this stand, leaving some seed trees. Harvest this stand with stand 13 in comp 1.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Comment: Decent quality tamarack and spruce stand. Old next step comments: Manage this stand for a mix of tamarack and spruce primarily, but a mix with other lowland species is acceptable.

Proposed Start Date: 10/01/2012

4	33002004-Cut	12.8	6118 - Lowland Deciduous with Cedar	Sawtimber Medium	76	Unspec ified	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Cut all trees greater than 3" dbh except leave buffer to drainage for retention. Cedar is within drainage buffer, which is being retained.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, balsam poplar, spruce, maple, balsam fir, cedar

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

11	33002011-Cut	45.3	4110 - Sugar Maple Association	Sawtimber Well	97	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Selection thin stand to 60-80 basal area releasing crop trees.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable maple, basswood, ash, birch

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

12	33002012-NF	8.3	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop/ Grass Planting	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.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
S t a n d											
13	33002013-Cut	15.2	4134 - Aspen, Spruce/Fir	Sawtimber Well	36	Unspecified	Harvest	Clearcut	4134 - Aspen, Spruce/Fir	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut all trees greater than 3" dbh.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> aspen, balsam, spruce, basswood											
<u>Other Comment:</u> Spruce budworm defoliation in majority of balsam and spruce trees. No retention due to forest health recommendations to remove moth inceptor trees.											
<u>Proposed Start Date:</u> 10/01/2018											
14	33002014-NF	2.2	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop/Grass Planting	310 - Herbaceous Openland		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 Regen:</u>											
<u>Other Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
17	33002017-Cut MWR	28.5	4110 - Sugar Maple Association	Sawtimber Well	97	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Reduce BA down to 75. In addition, 13 small group selection gaps will be cut. These gaps will have a radius of 46 feet, equaling 0.15 acres. The											
<u>Specs:</u> tops will be removed from these gaps, to facilitate scarification after the harvest.											
<u>Next Step</u> SitePrep, Scarification; Seeding, Hand Seed; Monitoring, Natural Regen (Intermediate); Pesticide, Other - Specify											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Sugar maple, basswood, white ash, red maple, and birch.											
<u>Other Comment:</u> The DNR in cooperation with Michigan State University is starting a research project to study regeneration of northern hardwoods under different treatment regimes. This treatment was approved in July of 2016 via a chapter 7 request.											
<u>Proposed Start Date:</u> 07/22/2016											
18	33002018-Cut	20.0	4110 - Sugar Maple Association	Sawtimber Well	97	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Selection thin stand to 60-80 basal area with 70 being ideal. Release crop trees.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Basswood, maple, ash											
<u>Other Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											



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
19	33002019-Cut	17.8	4110 - Sugar Maple Association	Sawtimber Well	97	171- 200	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Selection thin stand to 60-80 basal area with 70 being ideal. Release crop trees.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> aspen, basswood, maple, ash, spruce											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
20	33002020-Cut	8.8	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	72	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Proposal
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Cut all trees greater than 3" dbh except leave buffer to drainage for retention..											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> aspen, balm, cherry, basswood, balsam, spruce											
<u>Regen:</u>											
<u>Other</u> Two survey corners needed.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
24	33002024-NF	6.1	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		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											
<u>Specs:</u> of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others.											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
27	33002027-Cut	10.3	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	32	Immatur re	Harvest	Clearcut	4134 - Aspen, Spruce/Fir	Even-Aged	Proposal
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Cut all trees greater than 3" dbh.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> aspen, balsam, cherry, basswood, spruce											
<u>Regen:</u>											
<u>Other</u> Spruce budworm defoliation in majority of balsam and spruce trees. No retention due to forest health recommendations to remove moth inceptor											
<u>Comment:</u> trees.											
<u>Proposed Start Date:</u> 10/01/2018											



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
31	33002031-Cut	24.8	6118 - Lowland Deciduous with Cedar	Poletimber Well	84	Unspecified	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription West of drain cut all 3" and greater, buffer drain, and east of the drain cut all 3" and greater except cedar and hemlock only cut cedar for operational purposes east of drain.
Specs:

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

Acceptable Regen: aspen, balm, balsam, spruce, cedar, tamarack, maple

Other Comment:

Proposed Start Date: 10/01/2018

33	33002033-NF	1.6	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop/Grass Planting	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.
Specs:

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2018

37	33002037-Cut	4.0	4110 - Sugar Maple Association	Sawtimber Well	84	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Selection thin stand to 60-80 basal area with 70 being ideal. Release crop trees.
Specs:

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

Acceptable Regen: maple, basswood, ash

Other Comment:

Proposed Start Date: 10/01/2018

40	33002040-Cut	31.0	4110 - Sugar Maple Association	Sawtimber Well	84	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Selection thin stand to 60-80 basal area with 70 being ideal. Release crop trees.
Specs:

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

Acceptable Regen: maple, basswood, ash

Other Comment:

Proposed Start Date: 10/01/2018



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
41	33002041-Cut	8.0	4134 - Aspen, Spruce/Fir	Poletimber Well	21	Immature	Harvest	Clearcut	4134 - Aspen, Spruce/Fir	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut all trees greater than 3" dbh.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> aspen, balsam, spruce, cherry, balm											
<u>Other Comment:</u> Spruce budworm defoliation in majority of balsam and spruce trees. No retention due to forest health recommendations to remove moth inceptor trees.											
<u>Proposed Start Date:</u> 10/01/2018											
43	33002043-NF	2.1	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop/Grass Planting	310 - Herbaceous Openland		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 Regen:</u>											
<u>Other Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
46	33002046-Cut	32.9	4110 - Sugar Maple Association	Sawtimber Well	97	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Selection thin stand to 60-80 basal area with 70 being ideal. Release crop trees.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> maple, basswood, ash											
<u>Other Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
48	33002048-Cut	19.5	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	74	Unspecified	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut all trees greater than 3" dbh except leave some oak, yellow birch and cedar for mast and seed trees.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> maple, oak, spruce, balsam, ash											
<u>Other Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
49	33002049-Cut	36.0	4110 - Sugar Maple Association	Sawtimber Well	97	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Selection thin stand to 60-80 basal area with 70 being ideal. Release crop trees.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable maple, basswood, spruce, ash

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

50	33002050-Cut	11.4	4319 - Mixed Upland Forest	Poetimber Medium	35	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Cut all trees greater than 3" dbh.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, balsam, cherry, oak, maple, spruce, ash

Regen:

Other

Comment: Spruce budworm defoliation in majority of balsam and spruce trees. No retention due to forest health recommendations to remove moth inceptor trees.

Proposed Start Date: 10/01/2018

52	33002052-Cut	9.1	4110 - Sugar Maple Association	Sawtimber Well	97	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Selection thin stand to 60-80 basal area with 70 being ideal. Release crop trees.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable maple, basswood, ash

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

55	33002055-Cut	8.7	6129 - Mixed Coniferous Lowland Forest	Poetimber Medium	99	Unspecified	Harvest	Clearcut with Retention	6129 - Mixed Coniferous Lowland Forest	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Cut all trees greater than 3" dbh except cut cedar greater than 6" dbh.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable tamarack, spruce, maple, aspen, balm, cedar

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



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
57	33002057-Cut	3.2	4119 - Mixed Northern Hardwoods	Sawtimber Well	82	141- 170	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**Prescription Cut all trees greater than 3" dbh.Specs:Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable aspen, maple, beech, balsam, spruceRegen:OtherComment:Proposed Start Date: 10/01/2018

60	33002060-Cut	9.8	4110 - Sugar Maple Association	Sawtimber Well	82	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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Habitat Cut: No**Site Condition:**Prescription Selection thin stand to 60-80 basal area with 70 being ideal. Release crop trees.Specs:Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable maple, basswood, ashRegen:OtherComment:Proposed Start Date: 10/01/2018

61	33002061-Cut	9.5	4110 - Sugar Maple Association	Sawtimber Well	84	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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Habitat Cut: No**Site Condition:**Prescription Cut all balsam and spruce greater than 3" dbh due to SBW. Selection thin stand to 60-80 basal area with 70 being ideal. Release crop trees.Specs:Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable maple, basswood, aspen, ashRegen:OtherComment:Proposed Start Date: 10/01/2018

63	33002063-Cut	2.1	4110 - Sugar Maple Association	Sawtimber Well	81	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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Habitat Cut: No**Site Condition:**Prescription Cut all balsam and spruce greater than 3" dbh due to SBW. Selection thin stand to 60-80 basal area with 70 being ideal. Release crop trees.Specs:Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable maple, basswood, beech, ash, aspenRegen:OtherComment:Proposed Start Date: 10/01/2018



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
64	33002064-Cut	15.6	4119 - Mixed Northern Hardwoods	Sawtimber Well	77	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal

Habitat Cut: No **Site Condition:**

Prescription Cut all balsam and spruce greater than 3" dbh due to SBW. Selection thin stand to 60-80 basal area with 70 being ideal. Release crop trees.
Specs:

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

Acceptable maple, basswood, ash, aspen
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

65	33002065-Cut	24.4	42340 - Upland Spruce/Fir	Poletimber Well	45	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Cut all trees greater than 3" dbh except leave unmerchantable patches of small diameter aspen.
Specs:

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

Acceptable aspen, balm, balsam, spruce
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

68	33002068-Cut	8.0	4110 - Sugar Maple Association	Poletimber Well	84	171-200	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Selection thin stand to 60-80 basal area with 70 being ideal. Release crop trees.
Specs:

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

Acceptable maple, basswood, birch, ash
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

74	33002074-Cut	9.3	4319 - Mixed Upland Forest	Poletimber Well	35	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Cut all trees greater than 3" dbh except leave good quality pine.
Specs:

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

Acceptable aspen, balsam, spruce, pine
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

**Total Treatment
Acreage Proposed: 447.7**



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	8
Comments Does not meet SCA criteria.				
	Potential Old Growth		SCA Removal	181
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 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	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4134 - Aspen, Spruce/Fir	Sapling Well	19.2	10	Immature	Stand was cut in 1997 under contract 33-012-94-01. Trace of paper birch and hemlock with larger retained white pine and cedar. Open areas in the aspen are now filling in with conifers.
2	6120 - Lowland Cedar	Sawtimber Well	17.4	111	Unspecified	Cedar in northeast part of stand is denser than the rest. Larger diameter tamarack and black spruce with mortality.
3	4134 - Aspen, Spruce/Fir	Poletimber Well	49.8	35	Unspecified	Stand was cut in 1982. Trace of oak and pine.
4	6118 - Lowland Deciduous with Cedar	Sawtimber Medium	12.8	76	Unspecified	Stand has defoliation and mortality from SBW.
5	4134 - Aspen, Spruce/Fir	Sapling Well	21.2	14	Immature	Stand was cut in 2003 under contract 33-026-01-01. Good regeneration within stand.
6	4134 - Aspen, Spruce/Fir	Poletimber Well	9.7	41	Unspecified	Heavy mortality already in balsam and spruce most likely due to SBW. Some larger spruce/fir that still have some green needles but harvester would smash smaller aspen to get to the scattered trees.
7	4136 - Aspen, Mixed Conifer	Sapling Well	26.7	5	Immature	Stand was cut in 2012 under contract 33-033-09-01. Large white pine seed trees and some cedar was retained. Good aspen sprouting with balsam and tamarack in lower areas.
8	6120 - Lowland Cedar	Sawtimber Well	9.8	111	Unspecified	Cedar stand with a trace of balsam, white pine, paper birch and black ash. Creek/drainage flows through stand.
9	6120 - Lowland Cedar	Sawtimber Well	3.8	121	201+	Nice dense cedar stand.
10	6120 - Lowland Cedar	Sawtimber Well	2.3	111	Unspecified	Decent cedar stand with variable diameters. Tamarack has mortality.
11	4110 - Sugar Maple Association	Sawtimber Well	45.3	97	81-110	Stand was thinned in 1982 and 2003. Some areas in the southern part of the stand still have orange paint that was not cut during last thinning. This area has a higher basal area (close to 200) but comprised mostly of smaller diameter basswood. Paper birch that was retained is now dead.
13	4134 - Aspen, Spruce/Fir	Sawtimber Well	15.2	36	Unspecified	Pockets of large aspen mixed in with smaller diameter aspen. The large aspen are showing mortality as well as spruce/fir heavily defoliated by SBW. South end of stand thicker to balsam and spruce with small diameter aspen. Some trace of sugar maple and white pine.
15	4130 - Aspen	Sapling Well	32.8	23	Immature	Stand was cut in 1994 under contract 33-010-94-01. Thick aspen with some other species mixed in.
16	4130 - Aspen	Sapling Well	12.2	17	Immature	Stand was cut in 2000 under contract 33-023-99-01. Larger diameter balsam and spruce must have been retained which accounts for the larger diameter compared to the other species.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
17	4110 - Sugar Maple Association	Sawtimber Well	28.5	97	141-170	MWR-Walters Roloff Project experimental plot.
18	4110 - Sugar Maple Association	Sawtimber Well	20.0	97	141-170	Part of stand was thinned in 2000. The steep sections of the ridge does not appear like it has been thinned.
19	4110 - Sugar Maple Association	Sawtimber Well	17.9	97	171-200	Part of the stand was thinned in 2003 under contract 33-026-01-01. It appears that the steeper part of the ridge was not thinned because basal area is much higher. The balsam and spruce is primarily along the Detemple Road and has budworm defoliation.
20	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	8.8	72	81-110	No cutting record for this stand. Large, over mature trees with mortality. Also, spruce bud worm defoliating the balsam and spruce.
22	6120 - Lowland Cedar	Poletimber Well	2.8	116	Unspecified	Good quality stand.
23	4134 - Aspen, Spruce/Fir	Sapling Well	19.4	20	Immature	Stand was cut in 1997 under contract 33-012-94-01. Poor sprouting occurred due to over mature condition of stand when cut. Better stocking density currently as fills in with seedlings.
25	4134 - Aspen, Spruce/Fir	Sapling Well	48.8	5	Immature	Stand was cut in 2012 under contract 33-033-09-01. Good aspen sprouting but browsed on.
26	6120 - Lowland Cedar	Poletimber Well	3.0	103	Unspecified	Average quality cedar stand.
27	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	10.3	32	Immature	Even though stand was cut in 1985, good amount of trees are large diameter. All balsam and spruce have defoliation due to budworm. Good distribution of aspen with variable diameter/age. Should sprout back really well after harvest.
28	4134 - Aspen, Spruce/Fir	Sapling Medium	6.5	5	Immature	Stand was cut in 2012 under contract 33-033-09-01. Seed trees remain mixed in with the regeneration.
29	6120 - Lowland Cedar	Poletimber Well	1.4	103	Unspecified	Small, wet stand with four patches of cedar surrounded by ash and tag alder.
30	4119 - Mixed Northern Hardwoods	Poletimber Well	5.7	77	81-110	Stand was thinned in 2012 under contract 33-033-09-01. Residual basal area was 76 and being managed for sugar maple sawlogs.
31	6118 - Lowland Deciduous with Cedar	Poletimber Well	24.8	84	Unspecified	Past inventory lumped this stand in with a large cedar stand to the east. This stand has a larger composition of ash with other deciduous trees to justify delimiting it out from the more dense cedar stand.
32	4130 - Aspen	Poletimber Well	60.8	20	Immature	Stand was cut in 1986-87 under contract 33-067-83-01. Some patches of hardwood remain.
34	6120 - Lowland Cedar	Poletimber Well	58.2	103	141-170	Low quality swamp cedar stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
35	4319 - Mixed Upland Forest	Poletimber Medium	13.0	32	Immature	Stand was cut in 1985. Open stand with some larger balsam and spruce having budworm defoliation. Low density and small diameter reason for not harvesting due to SBW.
36	6115 - Lowland Ash	Poletimber Medium	14.9	109	Unspecified	Small diameter ash with tag alder filling in open areas.
37	4110 - Sugar Maple Association	Sawtimber Well	4.0	84	111-140	Stand was thinned in 2001 under contract 33-024-99-01. No regeneration except ironwood. Trace of beech and aspen.
38	4130 - Aspen	Sapling Well	9.7	16	Immature	Stand was cut in 2001 under contract 33-024-99-01. Stand is thickening up since last inventory.
39	4130 - Aspen	Poletimber Well	5.0	27	Immature	Stand was cut in 1990 under contract 33-052-88-01. Aspen with some conifer mixed in.
40	4110 - Sugar Maple Association	Sawtimber Well	31.0	84	141-170	Stand was thinned in 2001 under contract 33-24-99-01. This is a better quality northern hardwood stand dominated by sugar maple and basswood.
41	4134 - Aspen, Spruce/Fir	Poletimber Well	16.0	21	Immature	Cut in 1996 under contract 330041095-01. Nice balsam and spruce have budworm defoliation quite noticeable but minimal mortality currently in the stand. Treat stand early due to forest health recommendations.
44	4134 - Aspen, Spruce/Fir	Sapling Well	61.2	24	Immature	Stand was cut in 1993 under contract 33-051-88-01. Stand was cut over a few years time with a 10 acre fire in the sale during summer of 1995. Regenerated quit well.
45	4110 - Sugar Maple Association	Poletimber Poor	16.1	82	1-50	Stand was shelterwood cut in 2012 on contract 33-033-09-01. 26 basal area was marked to retain. Stand is being managed for a mix of hardwood, balsam, spruce and aspen.
46	4110 - Sugar Maple Association	Sawtimber Well	32.9	97	111-140	Stand was thinned in 2002 under contract 33-024-99-01. Nice hardwood stand with majority pole size and some sawlogs.
47	4139 - Aspen, Mixed Deciduous	Poletimber Well	6.4	19	Immature	Stand was clearcut except leave oak in 1998 under contract 33-041-95-01. In lower part of stand are swamp white oak trees. Aspen regeneration is dense with other species mixed in. An old barrow pit in south end of stand along Detemple Road is filling in with spruce, balm and aspen.
48	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	19.5	74	Unspecified	Stand was thinned in 2001 under contract 33-024-99-01. Most of the balsam and spruce have budworm defoliation. Larger amount of ash in the lower area should be treated for forest health concerns.
49	4110 - Sugar Maple Association	Sawtimber Well	36.0	97	111-140	Stand was thinned in 2001 under contract 33-024-99-01. Higher concentration of sugar maple compared to the other hardwood stands in the compartment. Contains larger diameter and better quality.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
50	4319 - Mixed Upland Forest	Poletimber Medium	11.4	35	81-110	Stand was thinned in 2001 under contract 33-024-99-01. Most of the residual balsam and spruce have budworm defoliation. Larger amount of ash in the lower area should be treated for forest health concerns.
51	4319 - Mixed Upland Forest	Sapling Well	12.3	9	Immature	Stand was cut in 1998 under contract 33-041-95-01. It is filling in more since what last inventory reported.
52	4110 - Sugar Maple Association	Sawtimber Well	9.1	97	111-140	Stand was thinned fall of 2001 under contract 33-024-99-01. Higher concentration of basswood compared to adjacent stands.
53	4130 - Aspen	Poletimber Well	10.0	42	Unspecified	Stand was cut in 1975. There is a 1-2 acre patch of hardwood knob within the aspen.
54	4139 - Aspen, Mixed Deciduous	Sapling Well	6.4	19	Immature	Stand was cut in 1998 under contract 33-041-95-01. Nice regeneration.
55	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	8.7	99	Unspecified	The quality of stand improves as move south through stand. Some mortality in tamarack appearing like eastern larch beetle damage.
56	6121 - Tamarack	Poletimber Medium	6.3	35	Unspecified	Stand was cut in 1982. There is a trace of red maple and birch. After the cut, some area's regenerated better than the rest creating some very dense patches. Now tamarack is filling in the more open areas of the stand.
57	4119 - Mixed Northern Hardwoods	Sawtimber Well	3.2	82	141-170	This is a small upland stand surrounded by swamp on three side with a past clearcut stand on the fourth side. Stand does not show evidence of any past harvest. Trace amounts of paper birch, tamarack and cedar.
58	6120 - Lowland Cedar	Poletimber Medium	15.7	99	Unspecified	Low density stand with tamarack seedlings coming up in the more open areas. Larger tamarack has mortality appearing from ELB.
59	4130 - Aspen	Sapling Well	5.6	19	Immature	Cut in 1998 under contract 33-042-95-01. Clearcut with nice, thick regeneration.
60	4110 - Sugar Maple Association	Sawtimber Well	9.8	82	111-140	Stand was thinned in 1998 under contract 33-042-95-01. This stand is dominated by sugar maple and basswood. Trace amounts of beech, balsam and spruce. Conifers mostly along the north west line with young aspen stand.
61	4110 - Sugar Maple Association	Sawtimber Well	9.5	84	111-140	Thinned in 1998 under contract 33-042-95-01. Trace of beech, white ash and white spruce.
62	4134 - Aspen, Spruce/Fir	Sapling Well	12.3	19	Immature	Cut in 1998 under contract 33-042-95-01. Good aspen regeneration. Larger cherry and balsam must be residual from the harvest. Trace amounts of beech, ironwood, maple and basswood.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
63	4110 - Sugar Maple Association	Sawtimber Well	2.1	81	111-140	Select cut in 1998 under contract 33-042-89-01. There is a trace of beech and white ash. This stand is a small part of a large northern hardwood stand on private property.
64	4119 - Mixed Northern Hardwoods	Sawtimber Well	15.6	77	111-140	Stand was thinned in 1999-2000 under contract 33-025-99-01. Topography changes makes this a mixed stand which is infected with SBW.
65	42340 - Upland Spruce/Fir	Poletimber Well	24.4	45	111-140	Part of stand was cut in 1991 under contract 33-024-89-01. The sale specs were to cut that will yield a pulpwood stick except leave cherry, but there is fir and spruce averaging 8" dbh. Treatment due to SBW presence in the stand and good quantity of saleable timber. Trace amount of basswood, ash, and maple.
66	6120 - Lowland Cedar	Poletimber Well	38.9	109	Unspecified	Swamp cedar stand with sphagnum moss and some grass. Tamarack and black ash concentrated more along west side with some mortality in the tamarack. Trace of paper birch.
67	6120 - Lowland Cedar	Poletimber Well	174.7	110	201+	Big cedar swamp with some old winter roads. The southern part has some areas that are less dense containing tag alder and a little higher concentration of tamarack.
68	4110 - Sugar Maple Association	Poletimber Well	8.0	84	171-200	No sign of a thinning. High density and small diameter in need of a thinning to release.
69	6112 - Lowland Aspen	Sapling Well	27.6	40	Unspecified	A mixed stand that was cut in 1977. Trace of white pine and hemlock in this diverse stand.
70	6120 - Lowland Cedar	Poletimber Medium	25.7	110	Unspecified	Patchy cedar stand with open areas of tag and mixed conifer. South end of stand is denser than the north.
71	4110 - Sugar Maple Association	Sawtimber Well	5.6	86	51-80	Stand was selection thinned in 2014 under contract 33-034-09-01. Looks like a good thinning within the targeted BA range.
72	429 - Mixed Upland Conifers	Poletimber Medium	6.9	24	1-50	This stand started from a timber trespass under contract 54-79-01. Red Pine was planted in 1993 but poor quality and density with several having the tops dead in them. Some oak planted in the center of the stand. SBW starting to defoliate. Trace of spruce.
73	4110 - Sugar Maple Association	Sawtimber Well	10.8	83	51-80	Stand was thinned in 2014 under contract 33-034-09-01. Good basal area retained. Trace of white ash, spruce, hemlock, paper birch and balsam.
74	4319 - Mixed Upland Forest	Poletimber Well	9.3	35	111-140	Stand was cut in 1982 under contract 33-054-79-01. Spruce budworm very noticeable in stand and mortality will start soon. Nice tall fir that are 5-7 sticks tall. Trace of white pine, maple and ash.
75	6120 - Lowland Cedar	Poletimber Well	8.8	124	111-140	Cedar is better quality and density along upland sides. Smaller black ash mostly along south east portion of stand. Trace of yellow birch and maple.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
76	42340 - Upland Spruce/Fir	Sapling Well	1.5	32	Immature	Stand was cut in 1985 under contract 33-054-79-01. Trace of black spruce, cherry, maple and tamarack. Some SBW in stand but not merchantable size.
77	4130 - Aspen	Poletimber Well	30.3	32	Immature	Cut in 1985 under contract 33-034-09-01. Variable diameter with some larger balsam showing signs of SBW but majority of balsam is small diameter with thick aspen surrounding them.
79	6111 - Lowland Balsam Poplar	Poletimber Medium	12.0	32	Immature	Cut in 1985 under contract 33-034-09-01. Very wet in south east corner and is where most of the black ash and cedar is located. A small upland ridge extends out from private in the north east part of the stand containing a trace of maple and basswood.



Stand	Cover Type	Acres	Managed Site	General Comments:
12	3102 - Grass	8.3	No	Grass opening that is filling in with spruce, cherry and aspen.
14	310 - Herbaceous Openland	2.2	No	Grass opening encroached by aspen, spruce and cherry.
21	623 - Emergent Wetland	4.2	No	Seasonally containing water.
24	310 - Herbaceous Openland	6.1	No	Grass opening filling in with cherry, balm, aspen and spruce.
33	3102 - Grass	1.6	No	Grass opening filling in with cherry and spruce.
42	623 - Emergent Wetland	11.6	No	Full of water in the springtime.
43	310 - Herbaceous Openland	2.1	No	Grass opening that is filling in with balsam and cherry.
78	622 - Lowland Shrub	8.5	No	Small creek flows through this lowland stand containing old beaver flooding areas.