



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33038

Entry Year 2021

Acreage: 1,805

County Menominee

Management Area: Green Bay Lake Plain

Revision Date: 2019-06-20

Stand Examiner: Dan Beaudou

Legal Description:

T36N R24W Sections 17, 18, 19, 20, 29 and 30.

Identified Planning Goals:

The compartment touches Lake Michigan's Bay of Green Bay on the east side. Upland cover types consist of aspen, hemlock, grass opening, northern hardwood, mixed deciduous and mixed conifer. The majority of cover types are of lowland classification. Cedar and hemlock make up a large percentage of the canopy. Lowland cover types consist of ash, cedar, mixed conifer, mixed deciduous, aspen/balsam poplar and shrub. There is 143 acre recommended for treatment which include 35 acres of lowland deciduous and spruce/fir clear cut, 11 acres of northern hardwood selection thinning and 97 acres of conifer and deciduous shelterwood.

Soil and topography:

The topography within this compartment is nearly level. The majority of the soil complexes within this compartment are Deford-Wainola-Rousseau, Tawas-Deford, Pickford mucky silty clay loam, Solona loam, Johnswood-Detour, Lupton-cathrow, Cathro-Ensley.

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

Within the compartment is state land interspersed with private land. The compartment borders mostly private and some state land. There are permanent and temporary residences along the Lake Michigan shoreline. Adjacent private property is hunting land and camps within the compartment boundaries.

Unique Natural Features:

Deer Creek and Lake Michigan.

Archeological, Historical, and Cultural Features:

Two archaeological sites within the compartment. 20ME73 (stand 6) and 20ME74 (stand 5) are both old camps/foundations. As no treatments are proposed in these areas, we have no concerns.

Special Management Designations or Considerations:

Deer Creek riparian area corridor and Lake Michigan shoreline.

Watershed and Fisheries Considerations:

Lake Michigan borders the eastern side of the compartment and the Deer Creek transects the west side. Deer Creek, classified as a warmwater stream, flows through this compartment. 100 foot buffer is recommended for Deer Creek and BMPS should be followed for any standing vernal pools or wetlands.

Wildlife Habitat Considerations:

This compartment lies adjacent the Lake Michigan shoreline and contains a high proportion (43%) of cedar swamp and mixed conifer swamp. Hemlock forest is also prevalent in this area, with hemlock stands covering 111 acres. Due to the relatively modest age of most cedar and hemlock and the difficulty in regenerating these types, they will be maintained without treatment for the cover values they provide for wildlife. Likewise, upland cedar and hemlock will be safeguarded to the extent possible when northern hardwood stands are select cut in the northwest portion of the compartment.

In the uplands, aspen and balsam poplar predominate with most of it being less than 30 years old. These stands tend to have interspersed pockets that are poorly stocked with trees but support lush growths of goldenrod, raspberry, thimbleberry, and other herbaceous plants. They will gradually fill with conifers and aspen during the next cycle.

Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel pits are not located in the area, and sand & gravel potential appears to be limited within the compartment. Much of the compartment is covered by wetlands. Bedrock limestone underlies glacial drift here, and while

the glacial sediments are relatively thin in this area (< 50 feet), they are thick enough that limestone development is unlikely. There is no known history of mineral leasing or exploration within or around the compartment. There is no known potential for economic hydrocarbon production in the UP.

Vehicle Access:

Two track road off M-35 in the north east with easement allows access to the center of compartment. Some access along M-35 and a county lane south end. Other access is where adjacent private landowners will approve.

Survey Needs:

Potentially, four corners will need to be identified for establishment.

Recreational Facilities and Opportunities:

No facilities. Hunting and fishing are the two primary recreational uses.

Fire Protection:

There is a good water source with Lake Michigan and Deer Creek. The cover types represented in this compartment do not pose a significant problem with Fire Protection. There are structures along the Lake Michigan Shoreline as well as camps interior to the compartment.

Additional Compartment Information:

A land transaction exchanging forty acre parcels took place where the State exchanged in Section 17 the NENW for a parcel in Section 20 the SWSW.

The following reports from the Inventory are attached:

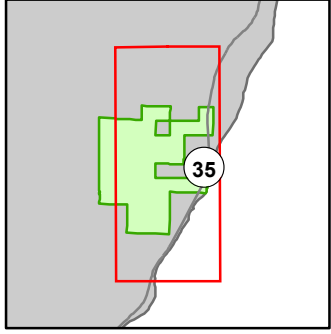
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

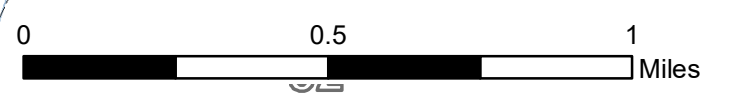
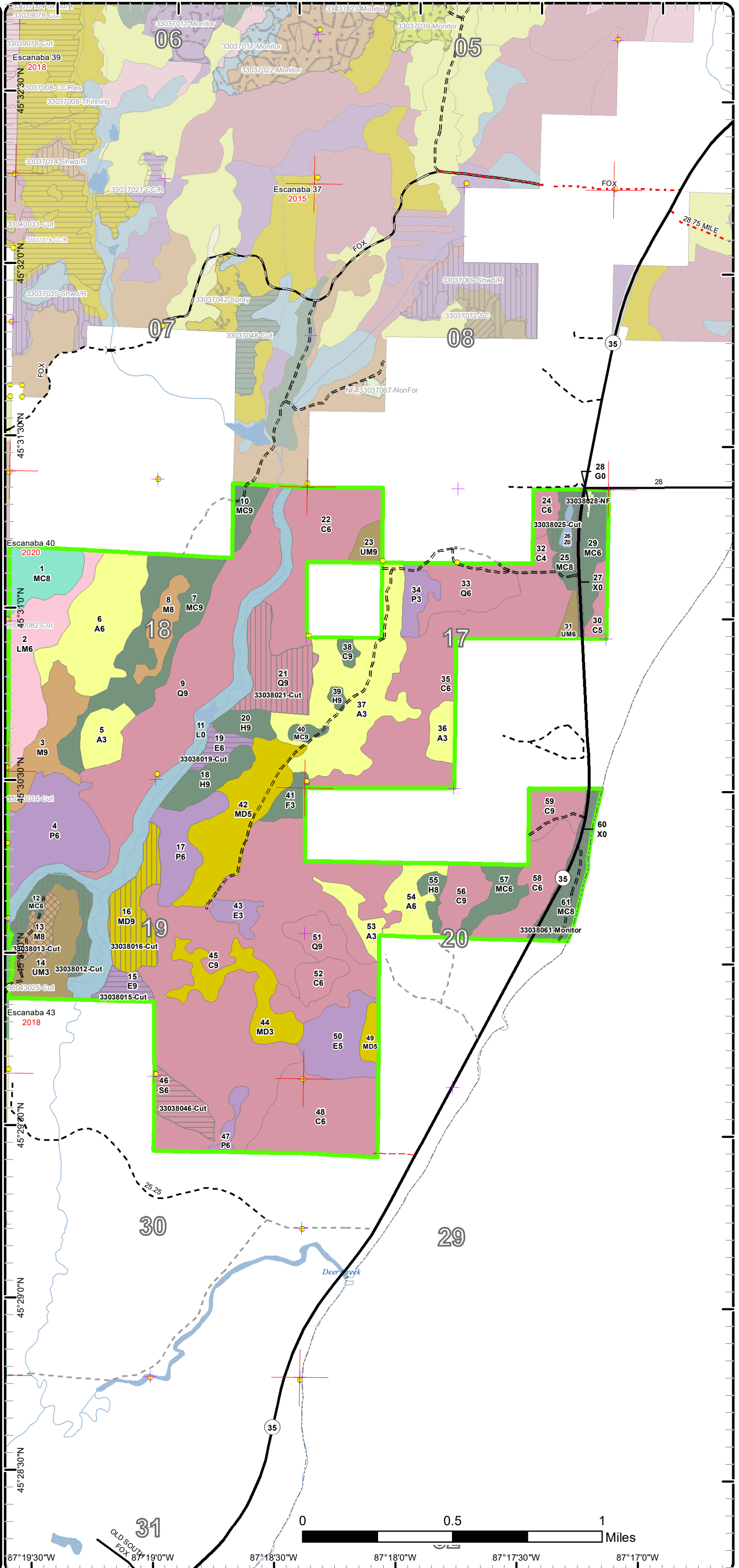
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 38
 T36N-R24W Sec. 17-20, 29,30
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Green Bay Lake Plain
 YOE: 2021
 Acres: 1,806 GIS Calculated
 Examiner: Dan Beaudou
 Map Revised: 11/14/2019
 Map Phase: Post-Review



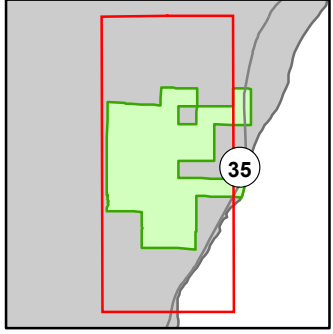
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- Bridges
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Shelter Wood (w/Reserves)
- Monitoring
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other 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
- 500 - Water
- 622 - Lowland Shrub



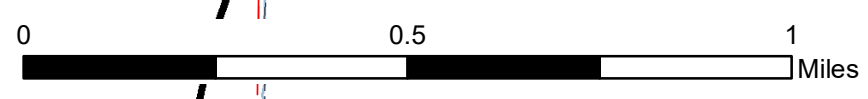
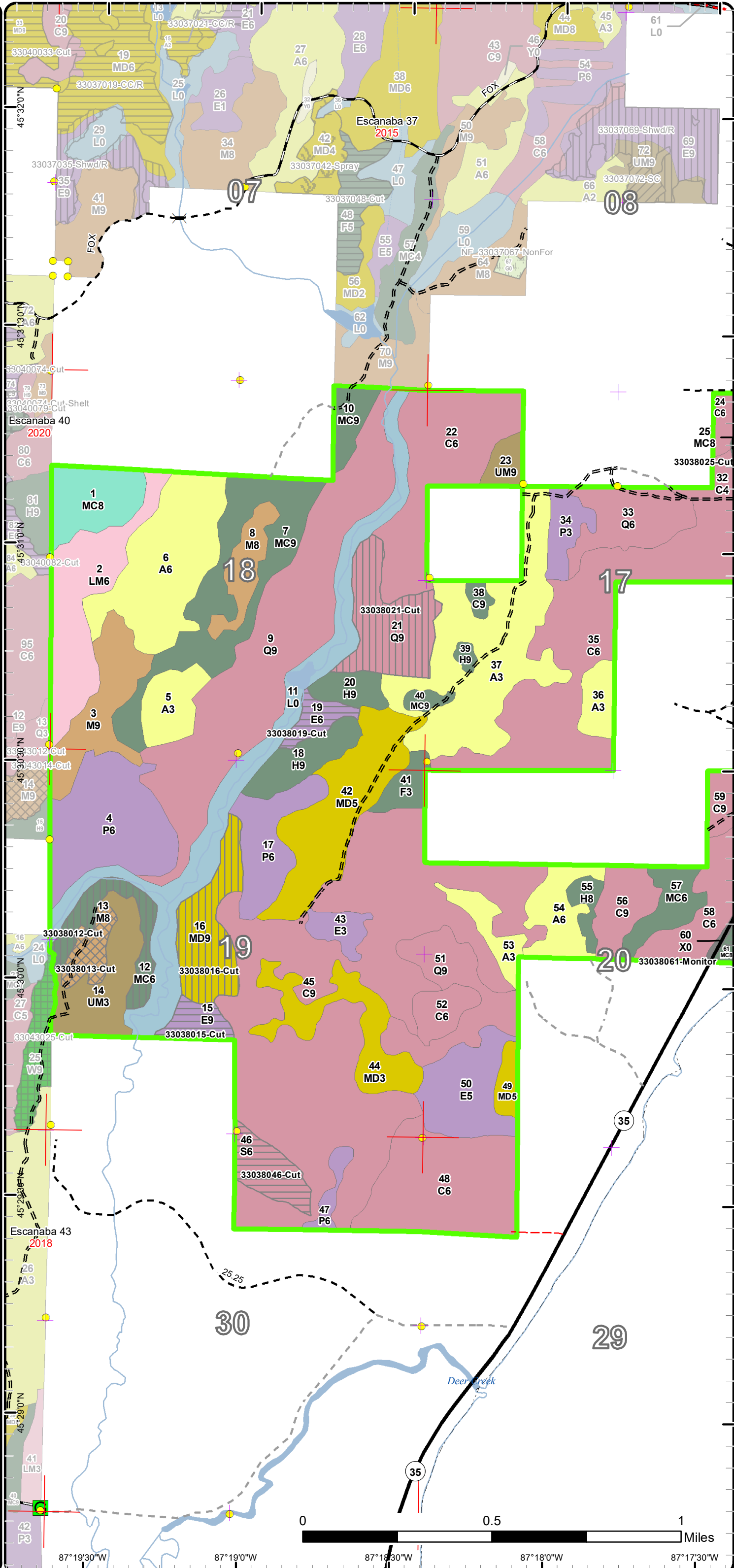
87°19'30"W 87°18'30"W 87°18'0"W 87°17'30"W 87°17'0"W
 45°28'30"N 45°29'0"N 45°29'30"N 45°30'0"N 45°30'30"N 45°31'0"N 45°31'30"N 45°32'0"N 45°32'30"N 45°33'0"N

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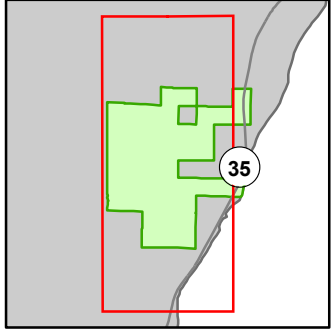
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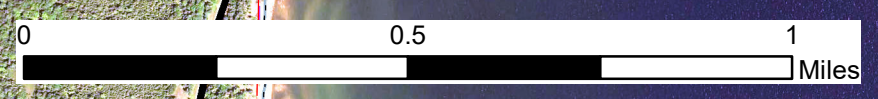
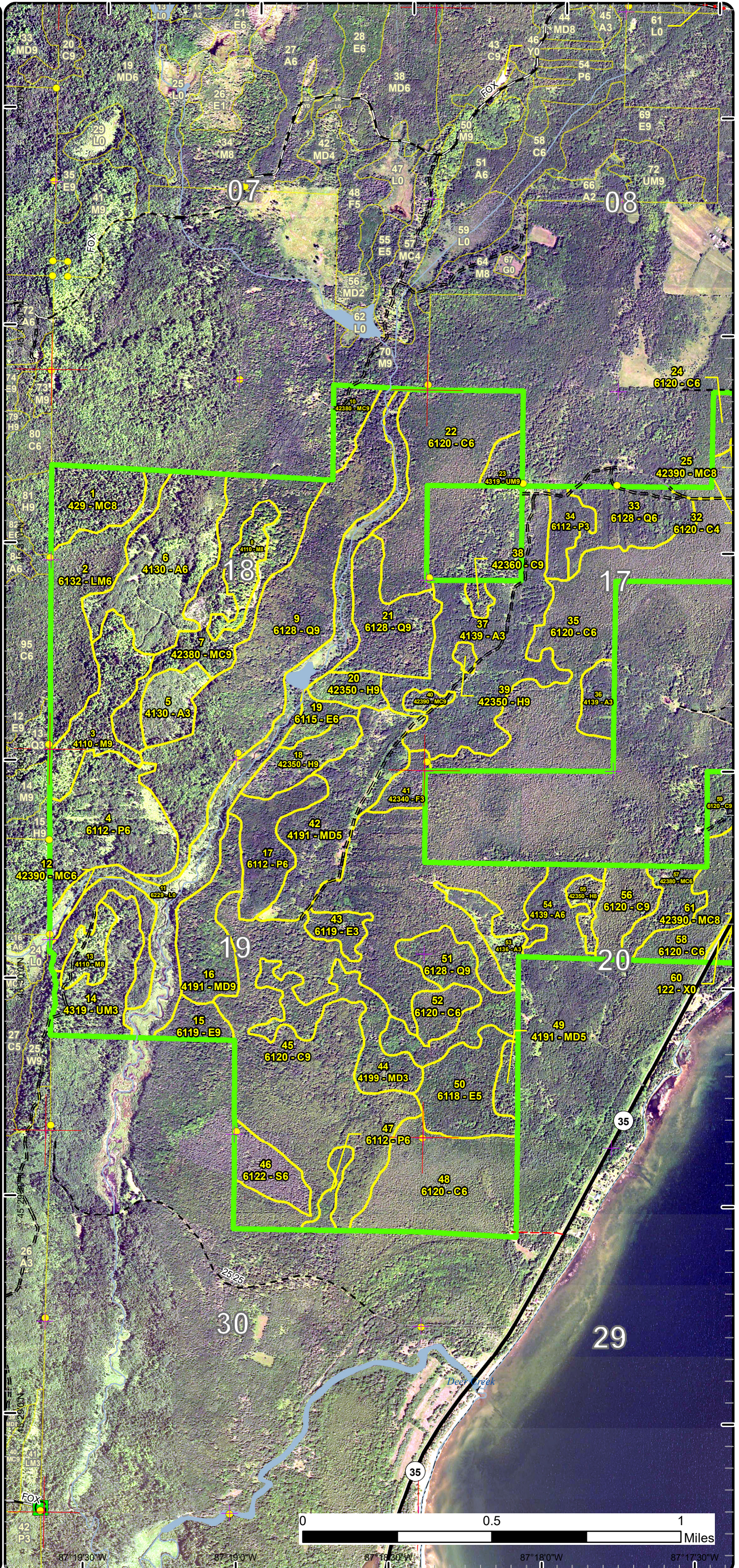
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Stand Boundary Map

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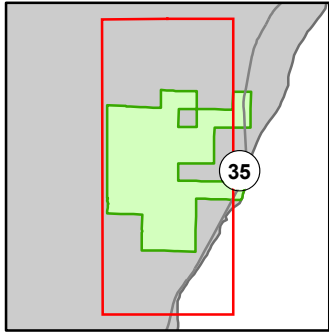
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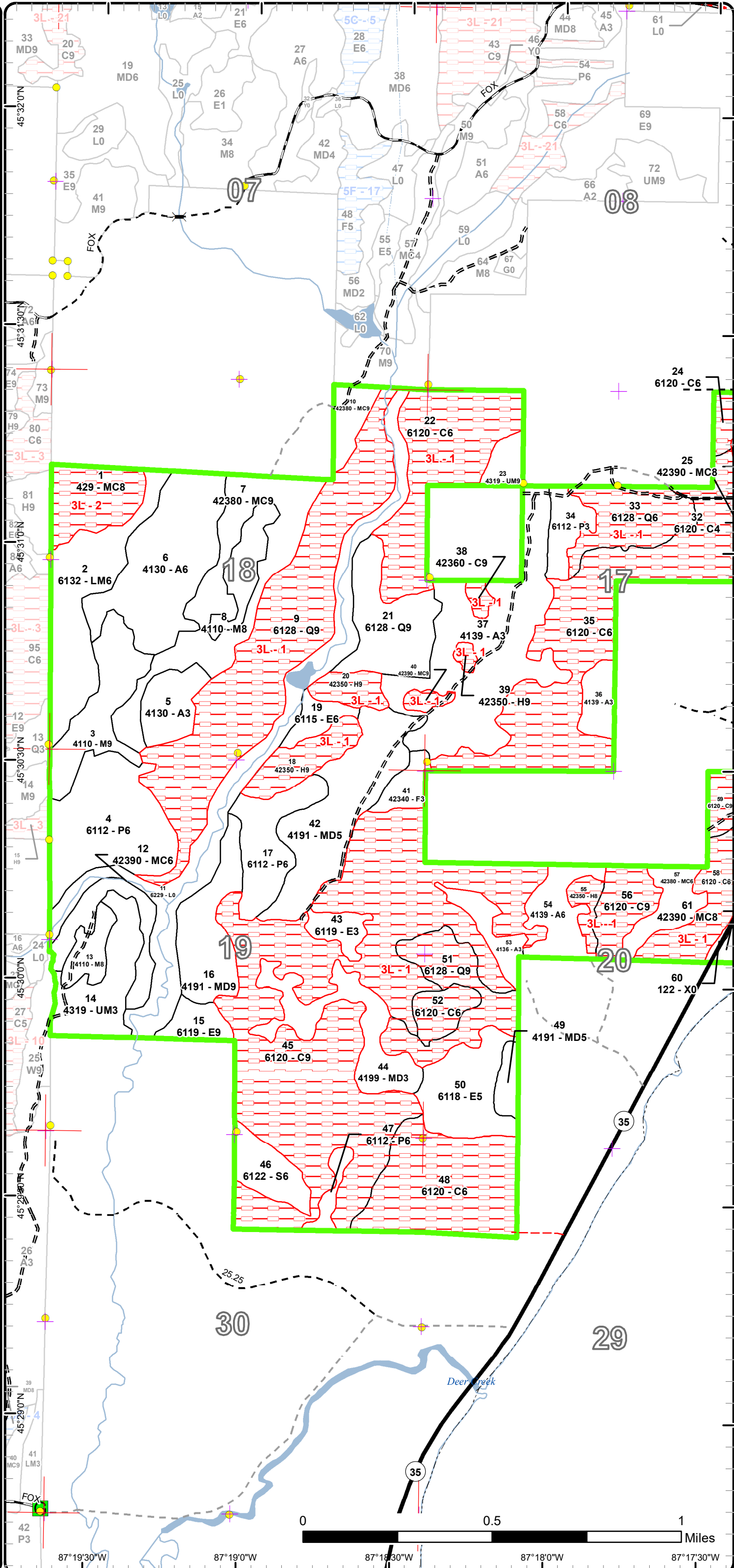
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Special Conservation Areas

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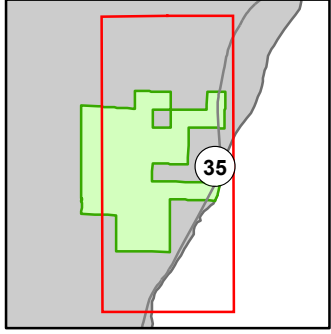


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- Stand Boundaries

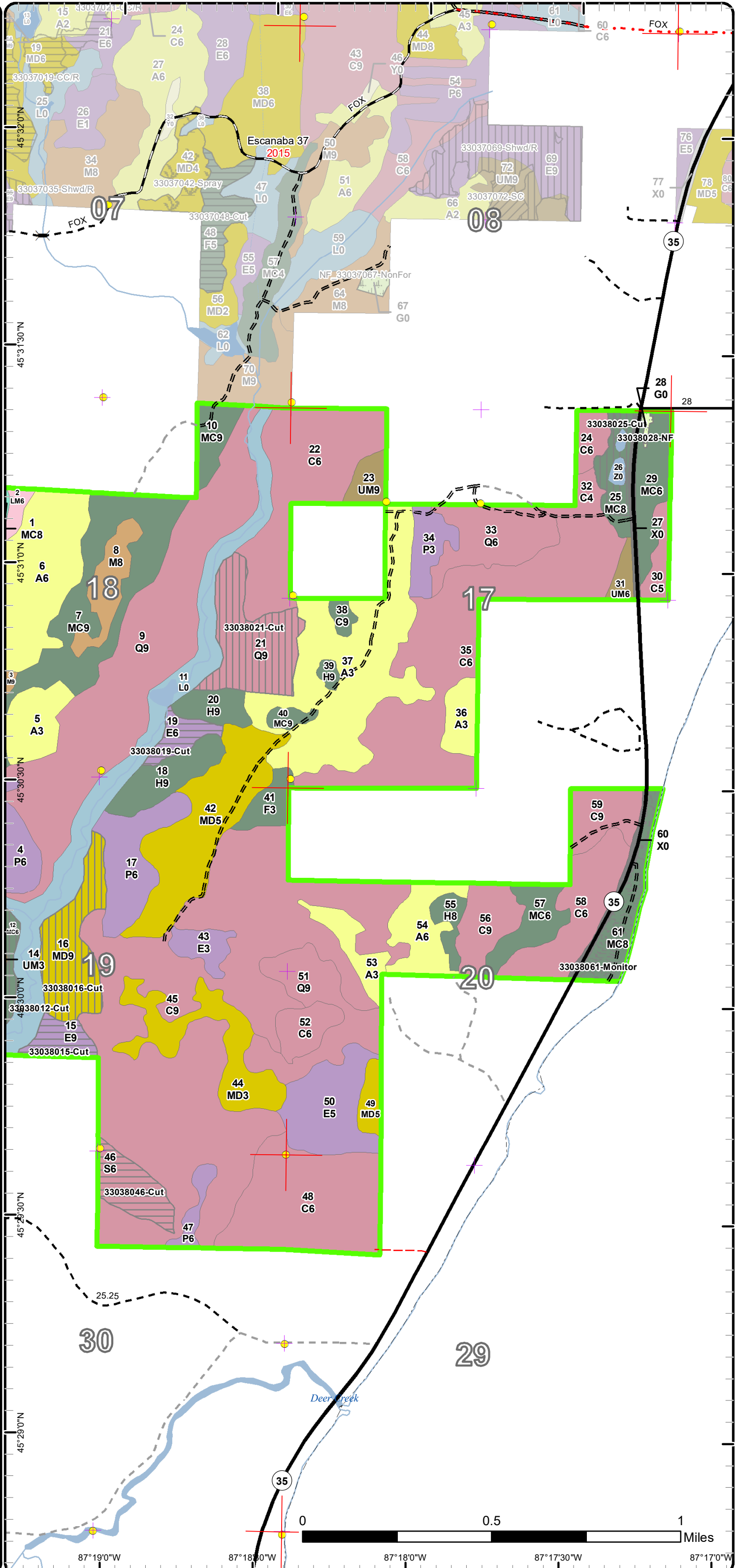


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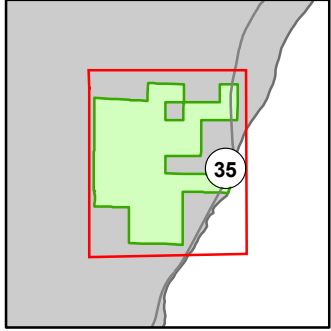


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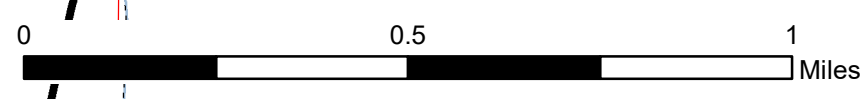
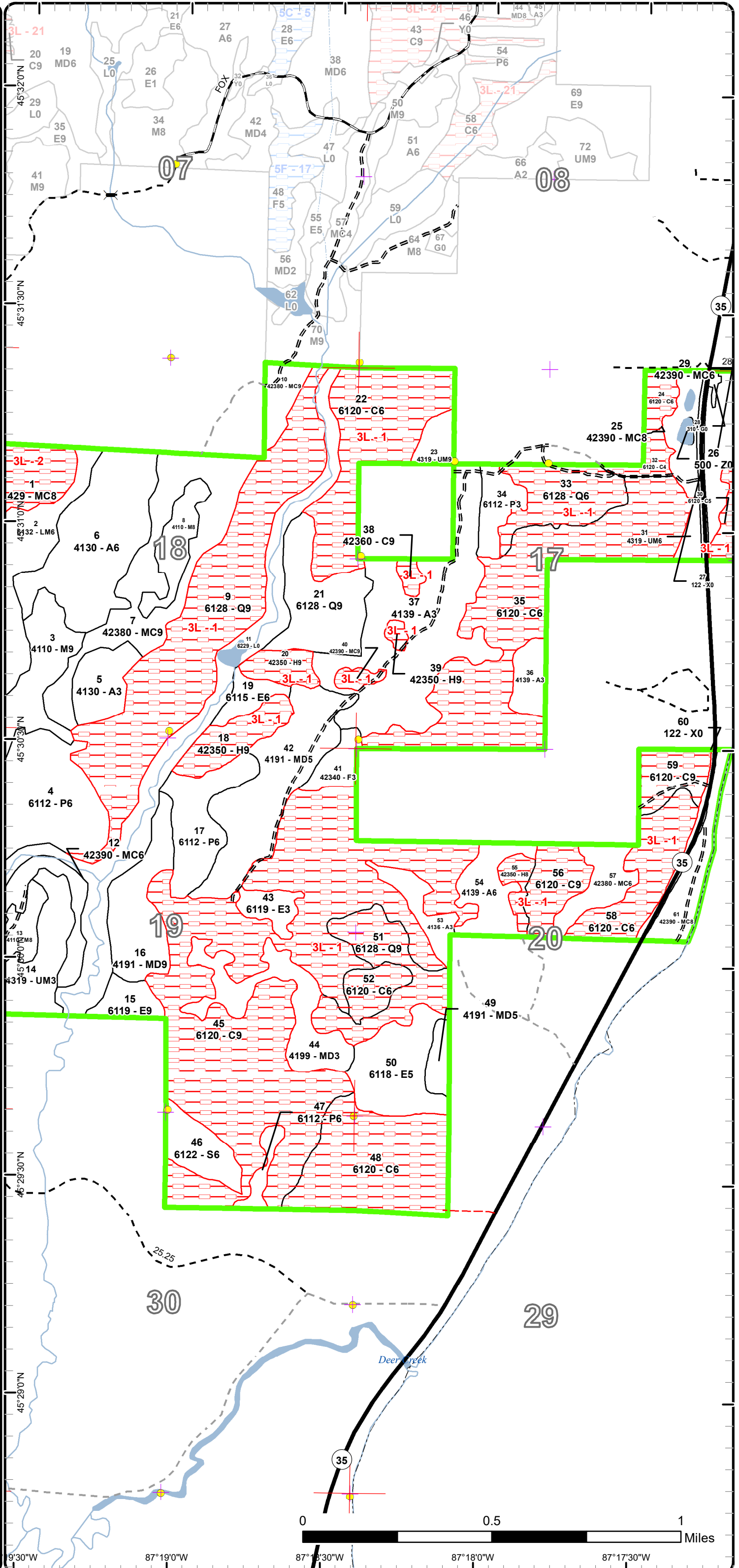


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9°30'W 87°19'0"W 87°18'30"W 87°18'0"W 87°17'30"W

Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	29	151	11	20	0	0	0	0	0	0	0	0	0	0	0	0	211
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	19	186	379	8	0	590
Hemlock	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	12	0	6	36
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Aspen/Balsam Poplar	0	0	56	0	28	6	0	0	0	0	0	0	0	0	0	0	0	12	102
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	70	126	29	0	0	225
Lowland Deciduous	0	0	0	9	0	33	0	0	18	0	0	0	0	0	0	0	0	0	60
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	0	0	0	48
Lowland Shrub	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	17
Mixed Upland Deciduous	0	0	0	33	55	0	7	0	0	32	0	0	0	0	0	0	0	0	127
Northern Hardwood	0	0	0	0	0	0	0	0	0	48	0	0	11	0	0	0	0	0	59
Upland Conifers	0	0	0	0	0	0	0	0	18	0	0	26	13	0	0	35	0	92	183
Upland Mixed Forest	0	0	30	0	0	0	5	0	0	0	0	0	0	0	0	8	0	0	43
Upland Spruce/Fir	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	93	0	115	193	103	59	12	0	36	80	17	44	24	89	360	463	8	110	1803



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 38

Total Compartment Acres: 1,805

Commercial Harvest - 143
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Lowland Conifers	0	0	0	0	36	0	0	0	0	36
Lowland Deciduous	18	0	0	0	0	0	0	0	0	18
Lowland Spruce/Fir	17	0	0	0	0	0	0	0	0	17
Mixed Upland Deciduous	0	0	0	0	32	0	0	0	0	32
Northern Hardwood	0	11	0	0	0	0	0	0	0	11
Upland Conifers	0	0	0	0	29	0	0	0	0	29
Total	35	11	0	0	97	0	0	0	0	143

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	143	0	0	0	0	0	20	0	1	164
Next Step	0	0	0	0	0	20	143	0	0	162
Total	143	0	0	0	0	20	162	0	1	326



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

12	33038012-Cut	18.4	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	73	141-170	Harvest	Shelterwood	429 - Mixed Upland Conifers	Uneven-Aged	No
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Prescription Shelterwood: cut all merchantable trees except leave cedar, hemlock, pine and some large deciduous seed trees. Watch for eagle nest and heron rookery, buffer accordingly.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Stand composition that of the parent stand that may contain ash, balsam, spruce, pine, cedar, hemlock, maple, balm

Other Comment: The shelterwood system lies somewhere in between the visual extremes of clearcutting and selection management. The parent forest is removed in several stages, with each stage successively establishing optimum environmental conditions for tree regeneration and then nursing the regeneration along to a point where the remaining parent forest can be harvested. Red oaks and white pine stands will often benefit from shelterwood harvesting.

Site Condition

Proposed Start Date: 10/1 /2020

13	33038013-Cut	10.9	4110 - Sugar Maple Association	Sawtimber Medium	111	51-80	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Selection thin stand to 50-70 basal area. Remove low quality and competition trees to promote high quality sugar maple crop trees. Watch for eagle nest and heron rookery, buffer accordingly.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Regeneration of species to promote the northern hardwood type: maple, basswood, ash, birch, butternut.

Other Comment: Selection harvesting may be the most misunderstood system and is certainly the most complex. When stands of trees become overly dense, forest health risks increase. Removing the higher-risk trees and leaving the trees with higher potential improves the quality and character of the forest. The partially-opened canopy allows enough light to accelerate individual tree health, vigor and allows seedlings to grow. The young trees eventually replace the older trees as the older trees either die or are harvested.

Site Condition

Proposed Start Date: 10/1 /2020

15	33038015-Cut	9.8	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	73	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Uneven-Aged	No
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Prescription Cut all trees greater than 3" except hemlock, yellow birch, and mark some larger seed trees and clumps of cedar. The stand is over half ash and is recommended to harvest before Emerald Ash Borer enters the stand. Increased sunlight will enhance deciduous sprouting and seed germination.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Species that will promote the Lowland Mixed Forest type such as ash, maple, birch, cedar, balsam

Other Comment: Clearcutting is the solution to forest types whose seedlings or sprouts require full sunlight. Seeds and buds respond well to the warmed ground. The abundance of light produces excellent growth, some of the fastest we have. Species such as aspen, paper birch and jack pine require full sunlight.

Site Condition

Proposed Start Date: 10/1 /2020



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
16 33038016-Cut	32.0	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	83	81-110	Harvest	Shelterwood	4319 - Mixed Upland Forest	Uneven-Aged	No
<p><u>Prescription Specs:</u> Cut all merchantable trees except leave hemlock, yellow birch, and mark some larger seed trees and clumps of cedar. The stand is about a quarter ash and is recommended to harvest before Emerald Ash Borer enters the stand. Increased sunlight will enhance deciduous sprouting and seed germination.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> maple, ash, balsam, spruce, birch, cedar, hemlock</p> <p><u>Other Comment:</u> The shelterwood system lies somewhere in between the visual extremes of clearcutting and selection management. The parent forest is removed in several stages, with each stage successively establishing optimum environmental conditions for tree regeneration and then nursing the regeneration along to a point where the remaining parent forest can be harvested. Red oaks and white pine stands will often benefit from shelterwood harvesting.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2020</p>										
19 33038019-Cut	8.3	6115 - Lowland Ash	Poletimber Well	78	111-140	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Two-Aged	No
<p><u>Prescription Specs:</u> Cut all merchantable trees except leave hemlock and some seed trees of yellow birch and cedar. Increased sunlight will enhance deciduous sprouting and seed germination.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> ash, maple, birch, balsam fir, hemlock, cedar</p> <p><u>Other Comment:</u> Clearcutting is the solution to forest types whose seedlings or sprouts require full sunlight. Seeds and buds respond well to the warmed ground. The abundance of light produces excellent growth, some of the fastest we have. Species such as aspen, paper birch and jack pine require full sunlight.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2020</p>										
21 33038021-Cut	36.2	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	126	Unspecified	Harvest	Shelterwood	613 - Lowland Mixed Forest	Two-Aged	No
<p><u>Prescription Specs:</u> Cut all merchantable trees except leave hemlock, cedar, white pine and some larger deciduous seed trees. Only harvest cedar for operability. Short lived species have reached maturity with mortality setting in.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Species to produce a lowland mixed stand such as cedar, hemlock, spruce, ash, maple, aspen, balm, birch and tamarack.</p> <p><u>Other Comment:</u> The shelterwood system lies somewhere in between the visual extremes of clearcutting and selection management. The parent forest is removed in several stages, with each stage successively establishing optimum environmental conditions for tree regeneration and then nursing the regeneration along to a point where the remaining parent forest can be harvested. Red oaks and white pine stands will often benefit from shelterwood harvesting.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2020</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
25 33038025-Cut	10.5	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Medium	118	51-80	Harvest	Shelterwood	4319 - Mixed Upland Forest	Uneven-Aged	No
<p><u>Prescription Specs:</u> Cut all merchantable trees except leave hemlock, cedar and some mixed seed trees. South end of stand had been treated in 2002. Short lived species are mature.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Regeneration of species to produce a mixed upland stand such as spruce, balsam, hemlock, birch, aspen, balsam, pine, maple, cedar, tamarack</p> <p><u>Other Comment:</u> The shelterwood system lies somewhere in between the visual extremes of clearcutting and selection management. The parent forest is removed in several stages, with each stage successively establishing optimum environmental conditions for tree regeneration and then nursing the regeneration along to a point where the remaining parent forest can be harvested. Red oaks and white pine stands will often benefit from shelterwood harvesting.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2020</p>										
28 33038028-NF	1.1	310 - Herbaceous Openland	Nonstocked	0	Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others. Also sharecropping could be considered for this opening.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2020</p>										
46 33038046-Cut	16.7	6122 - Black Spruce Poletimber Well		93	141-170	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than 3" dbh. This will allow full sunlight to germinate seeds in the sphagnum moss. Small stand will seed in from surrounding stand as well. Black spruce is at or past maturity and some are dying out. Stand was prescribed for treatment last year of entry but did not get set up for timber sale. Access stand from stand 15 down property line if not able to get access from adjacent private to west.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> black spruce, cedar, tamarack</p> <p><u>Other Comment:</u> Clearcutting is the solution to forest types whose seedlings or sprouts require full sunlight. Seeds and buds respond well to the warmed ground. The abundance of light produces excellent growth, some of the fastest we have. Species such as aspen, paper birch and jack pine require full sunlight.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2020</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
61 33038061-Monitor	19.6	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Medium	141	51-80	Monitoring	Herbicide Use	429 - Mixed Upland Conifers	Uneven-Aged	No
<p><u>Prescription</u> Monitor herbicide effectiveness on invasive phragmites. May need multiple applications of herbicide to control phragmite infestations.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Hand Application</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mixed Upland Conifers</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										

Total Treatment 163.5
Acreage Proposed:

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Beaudou : Examiner

Compartment: 38
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions	3L
210	210	0	0	Aspen	
591	0	0	591	Cedar	591
37	0	0	37	Hemlock	37
1	1	0	0	Herbaceous Openland	
103	103	0	0	Lowland Aspen/Balsam Poplar	
225	36	0	189	Lowland Conifers	189
60	60	0	0	Lowland Deciduous	
48	48	0	0	Lowland Mixed Forest	
79	79	0	0	Lowland Shrub	
17	17	0	0	Lowland Spruce/Fir	
126	126	0	0	Mixed Upland Deciduous	
59	59	0	0	Northern Hardwood	
184	154	0	30	Upland Conifers	30
43	43	0	0	Upland Mixed Forest	
9	9	0	0	Upland Spruce/Fir	
12	12	0	0	Urban	
1	1	0	0	Water	
1,805	959		846	Total Forested Acres	846
	53%		47%	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 Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3L: Other wildlife concerns	820	Unspecified	Unspecified	Unspecified	Unspecified
Comments: High amount of northern white cedar and/or hemlock. Lack of treatment due to Deer Winter Range Guidelines.							
2	Unavailable	3L: Other wildlife concerns	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments: High concentration of hemlock and cedar.							

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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
1	429 - Mixed Upland Conifers	Sawtimber Medium	26.1	102	51-80	N/A	Stand was thinned in 1994 under contract 33-006-87-01 and in 2015 under contract 33-010-11-01. Hemlock and cedar were retained leaving a higher percentage of those species now converting from a M-type to a MC-type. It is a more open looking stand with small patches of spruce/fir regeneration. Some stump sprouts but minimal on the deciduous trees that were harvested. Trace of black ash along the north and south lines of the stand.																																											
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2	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	48.0	134	Unspecified	N/A	Lowland cedar mixed with some smaller ash. Variable diameter to the stand but mostly wet making it a less productive site. Trace amounts of balm, green ash, and spruce.																																											
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3	4110 - Sugar Maple Association	Sawtimber Well	33.1	87	81-110	N/A	Stand was thinned in 1994 under contract 33-006-87-01 and in 2015 under contract 33-010-11-01. Mostly large pole and log sized trees with some saplings appearing to be ash and ironwood. Most of the saplings have been browsed. Trace amounts of cedar, birch and red maple.																																											
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4	6112 - Lowland Aspen	Poletimber Well	56.4	16	Immature	N/A	Stand had some strips cut in 1970 and the remaining strips cut in 2003 under contract 33-033-01-01. Strip cut area with younger strips having more balm in them. Trace amounts of pine and black ash.																																											
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5	4130 - Aspen	Sapling Well	17.3	15	Immature	N/A	Stand was cut in 2004 under contract 33-033-01-01. It has regenerated well to aspen. Most of the residual cedars have been blown over. Fir and spruce seedlings emerging with a trace of scattered large cedars still alive.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
6	4130 - Aspen	Poletimber Well	62.7	27	Immature	N/A	Stand was cut in 1992 and 1994 under contract 33-006-87-01. Mixed aspen stand with two small northern hardwood patches. Most of the cedar and hemlock are in the northern portion of the stand. Trace amounts of birch, cherry and pine.																																					
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7	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sawtimber Well	58.5	122	81-110	N/A	Stand was cut in 1992 under contract 33-006-87-01. Cedar, hemlock and some large deciduous were retained. Short lived species had been removed. Open areas regenerating to balm and ironwood.																																					
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8	4110 - Sugar Maple Association	Sawtimber Medium	15.3	87	51-80	N/A	Stand was thinned in 2004 under contract 33-033-01-01. Canopy still opened up with some seedlings just poking up through the snow but showing signs of browse. Trace amounts of butternut, cedar, hemlock and beech.																																					
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9	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	126.1	132	Unspecified	N/A	Large cedar and hemlock stand. Hemlock is mostly in southern half of the stand with higher concentration of canopy. Trace amounts of balsam, spruce, tamarack and balm.																																					
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10	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sawtimber Well	10.9	141	111-140	N/A	Stand thinned in 2004 under contract 33-033-01-01. Mixed northern hardwood and cedar stand.																																					
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11	6229 - Mixed lowland shrub	Nonstocked	79.3	0	Unspecified	No	Lowland mixed brush with Deer Creek flowing through it and old beaver flooding areas creating the open grassy areas.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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12 42390 - Mixed Non-Pine Upland Conifers Poletimber Well 18.4 73 141-170 N/A Mature stand with short lived species starting to die out.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	45	Pole/Log	8	73	Balsam Fir	Low	Variable	Sapling
White Spruce	10	Log	10					
Hemlock	10	Log/Pole	12					
Paper Birch	10	Log/Pole	12					
Northern White Cedar	10	Log	10					

13 4110 - Sugar Maple Association Sawtimber Medium 10.9 111 51-80 N/A Stand was thinned in 2004 under contract 33-021-02-01. Aspen, balm, paper birch, and larger balsam and spruce were cut out of the stand. Stand has conifer regeneration with larger trees of northern hardwood type. Trace amounts of butternut, birch, aspen and cedar.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	55	Log	14	111	Ironwood	Low	Variable	Sapling
Basswood	20	Log	12		Balsam Fir	Medium	Variable	Sapling
White Ash	10	Log	14		White Pine	Low	Variable	Sapling

14 4319 - Mixed Upland Forest Sapling Well 30.3 16 Immature N/A Stand was cut in 2003 under contract 33-021-02-01. Several large white pine scattered with some large hemlock and spruce. Saplings more dense in open areas than around the large tree shading. Trace amounts of red pine and sugar maple.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	20	Sapling	3	16	Balsam Fir	Medium	< 5 feet	Sapling
Bigtooth Aspen	20	Sapling	3		White Spruce	Medium	< 5 feet	Sapling
White Pine	20	XLog/Log	20		White Pine	Low	< 5 feet	Sapling
White Spruce	10	Sapling	3					
Balsam Fir	10	Sapling	3					

15 6119 - Mixed Lowland Deciduous Forest Sawtimber Well 9.8 73 81-110 N/A Mostly a green ash stand with cedar in each of the canopy classes. Mature stand with birch and other short lived with mortality.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Green Ash	50	Log/Pole	12	73	Northern White Cedar	Medium	Variable	Pole
Red Maple	30	Log/Pole	12		Cherry (spp.)	Medium	5 - 10 feet	Sapling
Northern White Cedar	10	Log/Pole	12		Tag Alder	Low	5 - 10 feet	Tall Shrub

16 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 32.0 83 81-110 N/A Over mature stand with dead trees on ground. Some larger trees have dead tops in them. Trace amount of yellow birch.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	XLog/Log	18	83	Green Ash	Low	Variable	Sapling
Green Ash	25	Log/Pole	14		Red Maple	Low	Variable	Sapling
White Spruce	10	Log/Pole	14		White Spruce	Low	Variable	Sapling
Northern White Cedar	15	Log/Pole	12					
Hemlock	10	Log	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
17	6112 - Lowland Aspen	Poletimber Well	28.2	37	Unspecified	N/A	Stand was cut in 1982. Variable size due to sparsely regenerated areas filling in since treatment. Trace of cedar and hemlock.																																							
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18	42350 - Upland Hemlock	Sawtimber Well	18.0	108	81-110	N/A	Almost pure hemlock stand with some cedar and trace of white pine.																																							
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19	6115 - Lowland Ash	Poletimber Well	8.3	78	111-140	N/A	Lowland drained ash stand with some slight upland areas of better growth. Smaller stand of ash to treat before Emerald Ash Borer enters it. Trace amounts of aspen, birch and balsam.																																							
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20	42350 - Upland Hemlock	Sawtimber Well	10.1	141	Unspecified	N/A	Hemlock stand with no regeneration. Trace amounts of yellow birch, cedar and white pine.																																							
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21	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	36.2	126	Unspecified	N/A	Thinner cedar stand with a diverse mix of short lived species that are mature with mortality setting in. Treating this stand to remove short lived species and with the cedar less dense there should be regeneration in the open areas.																																							
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22	6120 - Lowland Cedar	Poletimber Well	62.7	141	Unspecified	N/A	Wetter cedar stand with lower productivity than adjacent stand to the south. Trace amounts of hemlock, green ash, black spruce and red maple.																																							
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23	4319 - Mixed Upland Forest	Sawtimber Well	7.6	141	111-140	N/A	Stand was cut in 1999 under contract 33-005-96-01. Short lived species removed with cedar, hemlock, pine and smaller diameter spruce and ash. This stand continues east onto what is now the privately owned 40 acres that was transferred in a land trade 2019. The open areas produced from the treatment are regenerating to aspen, balm and ash. Trace amounts of white pine, ironwood, spruce, sugar maple and basswood.																																							
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24	6120 - Lowland Cedar	Poletimber Well	7.8	131	Unspecified	N/A	Less productive cedar stand with smaller diameters and wet. Cedar with ash and open areas containing brush.																																					
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25	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Medium	13.1	118	51-80	N/A	Variable stand that has a small vernal pond north side of larger pond stand 26. Short lived species are mature. Trace amounts of hemlock, birch, aspen, ash, willow. Small southern portion of the stand had been treated in 2002 under contract 33-045-01-01.																																					
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26	500 - Water	Nonstocked	1.4	0	Unspecified	No	Small pond.																																					
27	122 - Road/Parking Lot	Nonstocked	5.9	0	Unspecified	No	M-35 blacktop road with grass mowed right of way.																																					
28	310 - Herbaceous Openland	Nonstocked	1.1	0	Unspecified	No	Small grass opening with fence and "No Trespassing" signs. Surrounded by spruce and pine. Some seedlings poking up through the snow.																																					
29	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	18.2	128	51-80	N/A	Stand was cut in 2002 under contract 33-045-01-01. Combination of residual trees and regeneration.																																					
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30	6120 - Lowland Cedar	Poletimber Medium	7.7	151	Unspecified	N/A	Wetter stand with cedars tops thinning out or dying.																																					
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31	4319 - Mixed Upland Forest	Poletimber Well	4.6	53	51-80	N/A	Razorback ridge and powerline ROW traversing this small stand. Birch tops dying out. Hard stand for accessibility with the steep ridge and power line. Trace amounts of red pine, white pine, basswood and maple.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
32	6120 - Lowland Cedar	Poletimber Poor	6.8	131	Unspecified	N/A	Wet stand with thick shrub density.																																					
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33	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	29.3	141	Unspecified	N/A	Strips were cut out of the stand in the 70's. Regular strips running north and south that have regenerated to a mix of species.																																					
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34	6112 - Lowland Aspen	Sapling Well	12.3	46	Unspecified	N/A	Stand strip cut in 70's with stand 33 to east but this has less cedar and greater concentration of ash. Some large diameter trees mixed in.																																					
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35	6120 - Lowland Cedar	Poletimber Well	110.1	131	Unspecified	N/A	Wetter cedar stand with some open areas in southern portion containing shrubs.																																					
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36	4139 - Aspen, Mixed Deciduous	Sapling Well	10.7	30	Immature	N/A	Stand cut in 1989 under contract 33-057-86-01. Open areas creating an A2 last YOE are filling in with saplings/seedlings. Trace amount of cedar.																																					
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37	4139 - Aspen, Mixed Deciduous	Sapling Well	87.9	25	Immature	N/A	Stand cut mid 90's. Good regeneration with balm in the lower areas. Trace amounts of cedar and hemlock.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
38	42360 - Upland Cedar	Sawtimber Well	3.3	141	Unspecified	N/A	Stand of large cedar trees. Appears like small cedar and short lived species removed at some point historically. A dozen or so large cedars were cut down a while back in the south end of the stand and are still laying there. Trace of birch, aspen and spruce.	
Canopy Species		% Cover	Size Class	DBH	Age			
Northern White Cedar		90	Log/Pole	14	141			
Hemlock		10	Log/Pole	14				
39	42350 - Upland Hemlock	Sawtimber Well	2.2	141	Unspecified	N/A	There is a white pine laying on the ground in this stand with a raptor nest platform in it. It is made of wood framing, mesh fencing, re-rod 8" pieces sticking up to hold branches and a support pipe attached further down the tree. Trace amounts of yellow and paper birch.	
Canopy Species		% Cover	Size Class	DBH	Age			
Northern White Cedar		50	Log	10	141			
Hemlock		50	Log	12				
40	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Well	3.6	141	141-170	N/A	Higher density of hemlock with more cedar along the two track. Trace amount of birch, spruce and green ash.	
Canopy Species		% Cover	Size Class	DBH	Age			
Hemlock		40	Log	12	141			
White Pine		20	XLog/Log	18				
Northern White Cedar		20	Log/Pole	10	141			
Red Maple		15	Pole/Log	8				
41	42340 - Upland Spruce/Fir	Sapling Well	9.1	37	Unspecified	N/A	Stand was cut in 1982. It was more open in the past but is pretty much filling in with conifer and balm.	
Canopy Species		% Cover	Size Class	DBH	Age			
Balsam Fir		40	Pole/Sapling	5	37			
White Spruce		20	Pole/Sapling	5				
Quaking Aspen		10	Pole/Sapling	6				
Balsam Poplar		10	Pole/Sapling	6				
Green Ash		15	Pole/Sapling	6				
Sub-Canopy Species		Density	Avg. Height	Size				
Tag Alder		Low	5 - 10 feet	Tall Shrub				
42	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	54.8	37	1-50	N/A	Stand was cut in 1982. Still some open areas slow to seed in. There is a variable size with the slowly seeding in of these open areas.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		25	Pole/Sapling	6	37			
Balsam Poplar		15	Pole/Sapling	6				
Green Ash		15	Sapling	4				
White Spruce		10	Sapling	4				
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White Pine		10	Sapling/Pole	4				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
43	6119 - Mixed Lowland Deciduous Forest	Sapling Well	8.8	24	Immature	N/A	Stand filling in since last inventory. Trace amounts of yellow birch, hemlock, balsam and spruce.																																																						
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44	4199 - Other Mixed Upland Deciduous	Sapling Well	33.0	24	Immature	N/A	Stand cut in 1995 under contract 33-001-92-01. Slight upland in some areas with aspen but balm and green ash are more prevalent.																																																						
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Northern White Cedar	15	Log/Pole	12																																																										
45	6120 - Lowland Cedar	Sawtimber Well	248.8	146	111-140	N/A	Large cedar stand with changes in overall growth due primarily to a slight change in elevation. Some areas had the short lived species cut out year ago. Trace amounts of balm, birch, red maple and balsam.																																																						
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46	6122 - Black Spruce	Poletimber Well	16.7	93	141-170	N/A	Black spruce stand with variable diameters and some mortality. Open areas have seedlings started. The edge of the stand transitions as mix with cedar.																																																						
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47	6112 - Lowland Aspen	Poletimber Well	5.9	40	Unspecified	N/A	Stand cut in 1979. Surrounded by lowland with slight upland. Some scattered large cedars had been retained.																																																						
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48	6120 - Lowland Cedar	Poletimber Well	64.5	146	Unspecified	N/A	Slight drop in elevation makes this a wet stand and lower productivity than stand to west.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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49	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	6.7	54	51-80	N/A	
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The State recently obtained this stand by an exchange. Previous owner did not have easement to the property. Some large trees of birch, balsam, spruce that are mature with mortality setting in. Appears this stand was cut about 40 years ago with a mix of trees left that are now mature. There is a smaller diameter that regenerated after the cut. Possible treatment next cycle then the smaller diameter will be merchantable.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Green Ash	15	Pole/Sapling	5		Cherry (spp.)	Low	5 - 10 feet	Tall Shrub
White Spruce	20	Pole	8	54	Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	10	Pole/Sapling	6					
Northern White Cedar	10	Log/Pole	12					
Paper Birch	15	Log	14					
Balsam Poplar	15	Pole/Sapling	6					

50	6118 - Lowland Deciduous with Cedar	Poletimber Medium	32.7	48	Unspecified	N/A	
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Most of this stand was obtained by recent land exchange. Large cedar with small ash. More open stand with lower density and variable diameter in deciduous.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	25	Log/Pole	12	135
Black Ash	50	Sapling/Pole	4	48
Balsam Poplar	10	Pole/Sapling	8	

51	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	33.6	121	111-140	N/A	
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Large cedar and hemlock with large deciduous mixed in.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	45	Log/Pole	12	121
Hemlock	20	Log	14	
Red Maple	10	Log/Pole	16	
Paper Birch	10	Log/Pole	14	
Yellow Birch	10	Log/Pole	16	

52	6120 - Lowland Cedar	Poletimber Well	11.6	135	Unspecified	N/A	
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Poor quality wet stand with low basal area.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	50	Pole	6	135
Black Ash	40	Sapling/Pole	4	
Balsam Fir	10	Sapling/Pole	4	

53	4136 - Aspen, Mixed Conifer	Sapling Well	11.7	13	Immature	N/A	
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Stand was treated in 2006 under contract 33-035-01-01. Cedar, hemlock and pine were retained. Good aspen regeneration with pockets of conifer. Trace amount of white pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	45	Sapling	3	13	Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Balsam Poplar	10	Sapling	3	13	Balsam Fir	Low	5 - 10 feet	Sapling
Red Maple	15	Sapling	3					
Northern White Cedar	15	Log/Pole	12					
Balsam Fir	10	Sapling	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
54	4139 - Aspen, Mixed Deciduous	Poletimber Well	20.2	41	Unspecified	N/A	Stand was cut in 1978. Good mixed aspen stand on slight upland.																																									
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55	42350 - Upland Hemlock	Sawtimber Medium	6.4	144	Unspecified	N/A	Stand was treated in 2006 under contract 33-035-01-01. Cedar, hemlock and pine were retained with harvesting of short lived species. Some balsam and conifer regeneration in the open areas. Trace of white pine.																																									
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56	6120 - Lowland Cedar	Sawtimber Well	18.5	126	Unspecified	N/A	Variable diameter cedar on slight upland some of the cedar are 14-16" dbh. Wetter areas have thicker tag alder.																																									
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57	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	15.6	135	111-140	N/A	There are three upland patches that were harvested in 1980. They are regenerating to aspen, birch, red maple, balsam and spruce. The rest of the stand is slight lowland where short lived species were removed. Shade from cedar and hemlock provide little regeneration. Brush/shrubs in open lowland areas.																																									
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58	6120 - Lowland Cedar	Poletimber Well	32.7	137	Unspecified	N/A	Series of cedar and lowland brush created from wave action as shoreline receded over time. There is a denser hemlock patch in the center of the stand along the highway.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
60	122 - Road/Parking Lot	Nonstocked	6.0	0	Unspecified	No	Roadway M-35 State highway.

61	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Medium	19.6	141	51-80	N/A	There is a private access drive that is black topped headed to south from middle of the stand off M-35. Also a powerline right of way traversing the stand. Trace amount of yellow birch. East side of stand borders Lake Michigan. Previous YOE had treatment to hand spray invasive phragmites.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	15	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
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Hemlock	25	Log	12	141				
Northern White Cedar	25	Log/Pole	10					