



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33049

Entry Year 2021

Acreage: 1,391

County Menominee

Management Area: Green Bay Lake Plain

Revision Date: 2019-06-20

Stand Examiner: Dan Beaudou

Legal Description:

T35N R25W Sections 1, 2, 11 and 12

Identified Planning Goals:

The compartment is close to Lake Michigan's Bay of Green Bay. Upland cover types are aspen, northern hardwood and mixed conifers. Lowland cover types are ash, cedar, hemlock, aspen/balm, mixed conifer and mixed deciduous. There is 163 acres recommended for treatments of which 44 acres of upland mix to be clearcut, 65 acres of northern hardwood selection thinning and 54 acres of lowland mixed shelterwood.

Soil and topography:

Topography is level to slightly rolling; Soils are poorly drained, somewhat poorly drained and well drained sands, and very poorly drained, extremely acid mucks and peats. Major soil series are Deford, Wainola, Rousseau, Dawson, Greenwood, and Kinross.

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

This compartment is located within a belt of state forest land that is approximately 30 miles long by 8 miles wide in southeastern Menominee County (near the Lake Michigan shoreline between Escanaba and Menominee). Land ownership at the north and south ends of this compartment are heavily fractured with private ownership. This particular compartment is connected to state land to the north, and to a lesser degree to the west and south where private land is more common. Highway M-35 and private property are located at the east edge of the compartment. Land use is largely recreational on the private lands.

Unique Natural Features:

None within the compartment.

Archeological, Historical, and Cultural Features:

None known

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

The big Cedar River is located at the west edge of this compartment. Lake Michigan is within ½ mile of the east compartment boundary. No major waterbodies are located within this compartment. However BMPs should be followed for any standing vernal pools or wetland areas.

Wildlife Habitat Considerations:

This compartment lies adjacent the Lake Michigan shoreline and is 56% cedar swamp. Cedar areas will be allowed to age and will provide some cover value for wildlife that use lowland conifer. The perimeter of the compartment contains upland forest of aspen and balsam poplar with most it being less than 20 years old. Several standard timber harvests are proposed in aspen and hardwood stands.

Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel pits are located more than two miles to the southwest. 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:

The southwest portion of the compartment can be accessed via a forest road that originates from County Road 551 (River Road). The northwest portion can be accessed from the "Go-C-Jo Road" which originates on the South Fox Road. The

central portion of the compartment is entirely cedar swamp and is inaccessible by vehicle. Several forest roads originating from Hwy M-35 enter the east side of the compartment for short distances.

Survey Needs:

Potentially, seven corners will need to be requested for establishment.

Recreational Facilities and Opportunities:

No developed recreational facilities are present in the compartment; however several opportunities exist for a variety of outdoor recreation, such as hunting, trapping, hiking, and camping. A parcel that was donated to the State by the Nature Conservancy provides access to the Big Cedar River.

Fire Protection:

This compartment consists mainly of lowland forest types that usually do not pose a high fire threat. An abundant water supply is located nearby. Access to most of this compartment is very good for fire suppression activities. There are a couple of "party spots" that have evidence of campfires along the Big Cedar River that could pose a wildfire threat at certain times of the year.

Additional Compartment Information:

The following reports from the Inventory are attached:

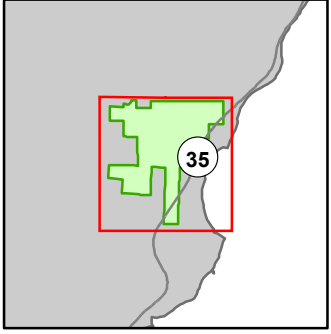
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

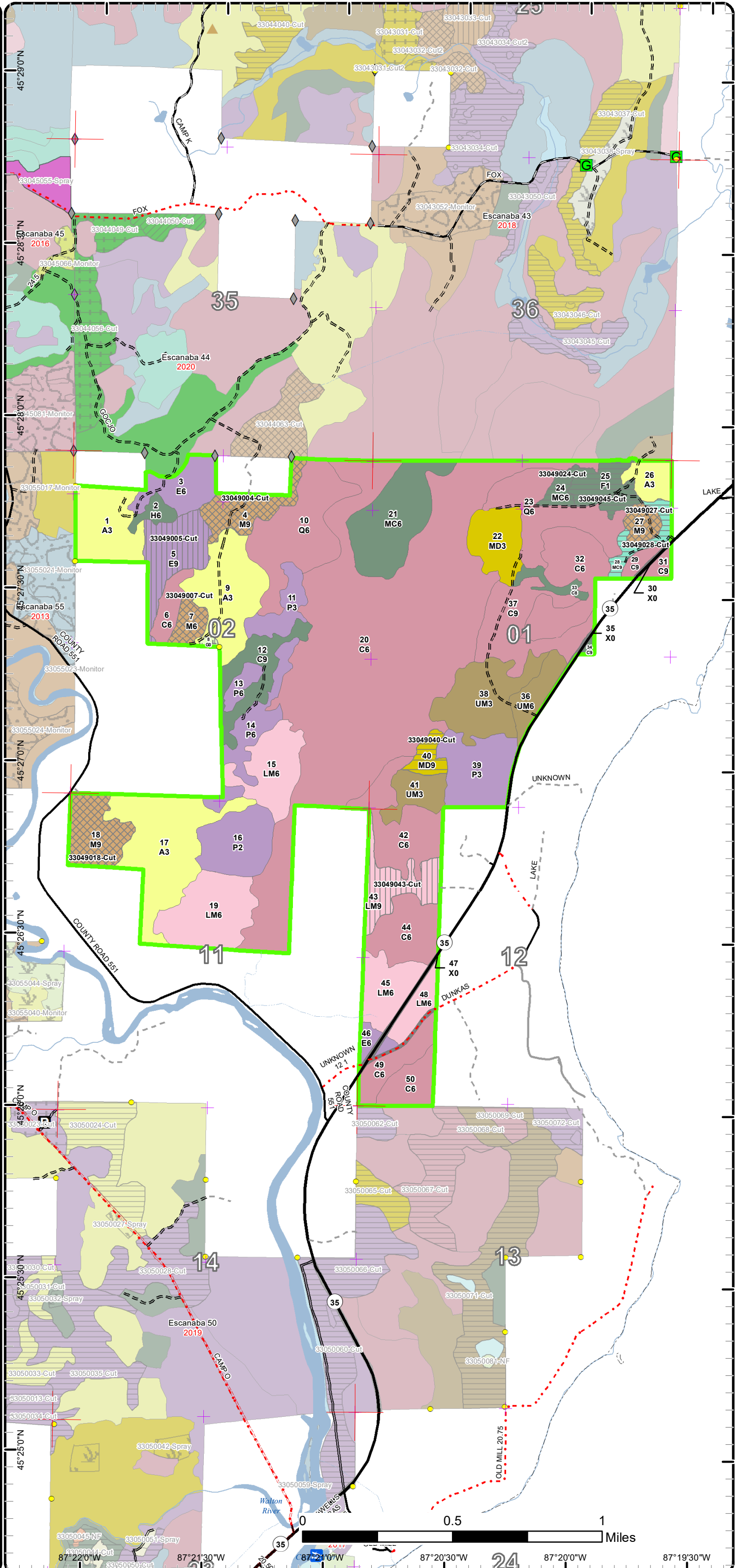
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 49
 T35N - R25W Sec. 01,02,11,12
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Green Bay Lake Plain
 YOE: 2021
 Acres: 1,391 GIS Calculated
 Examiner: Dan Beaudou
 Map Revised: 11/14/2019
 Map Phase: Post-Review

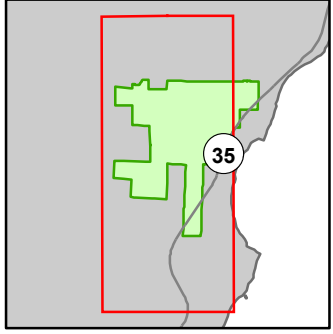


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Designated ORV Route
- Intermittent Stream
- Island in Lake or River
- Perennial River
- Shoreline
- Lakes and Rivers
- P** Parking Lot
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland

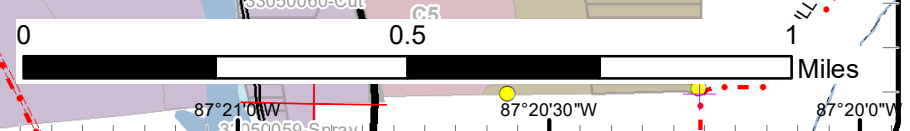
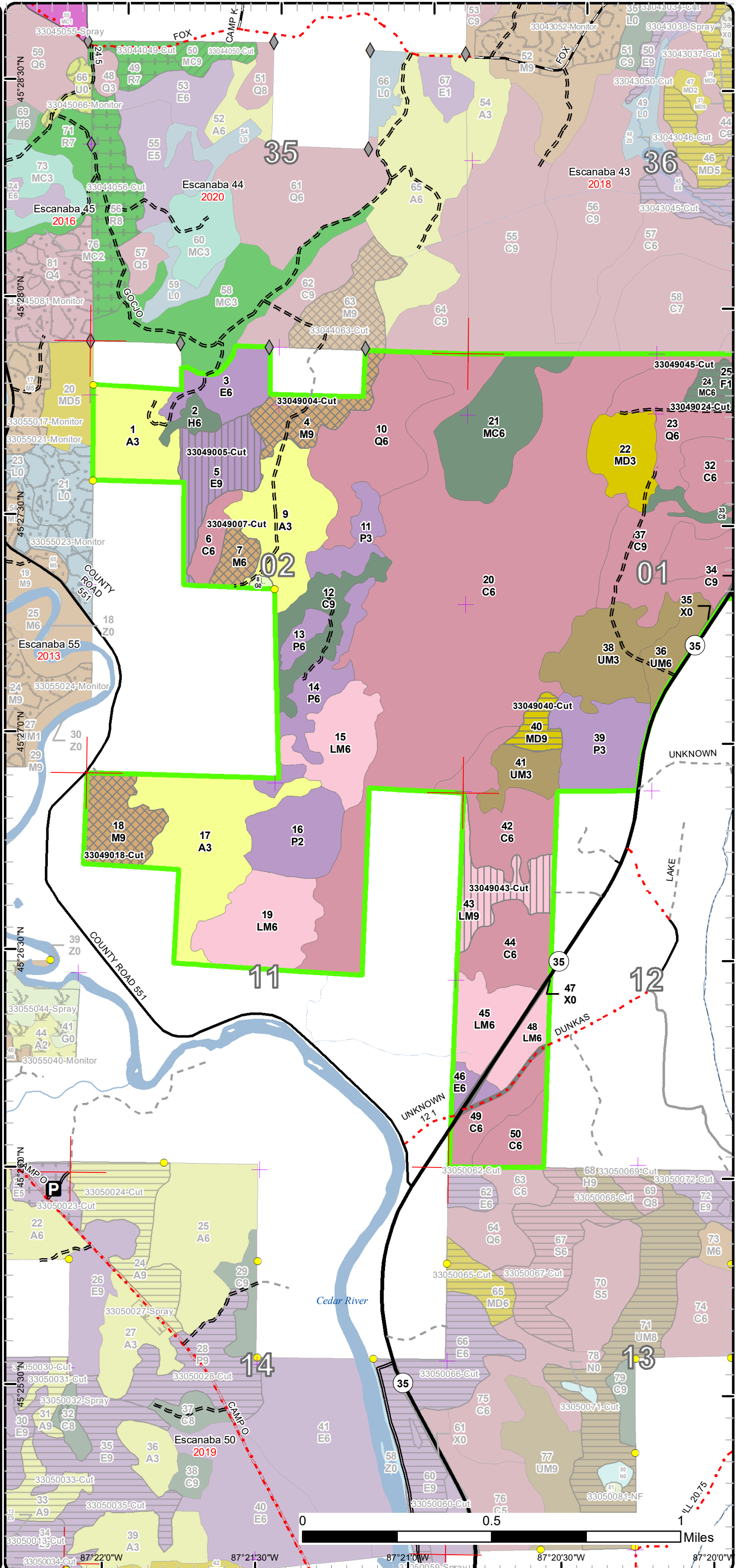


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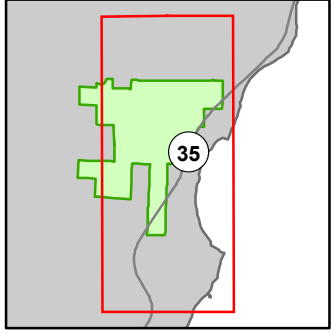


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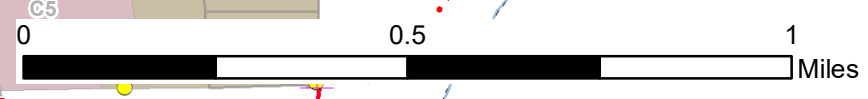
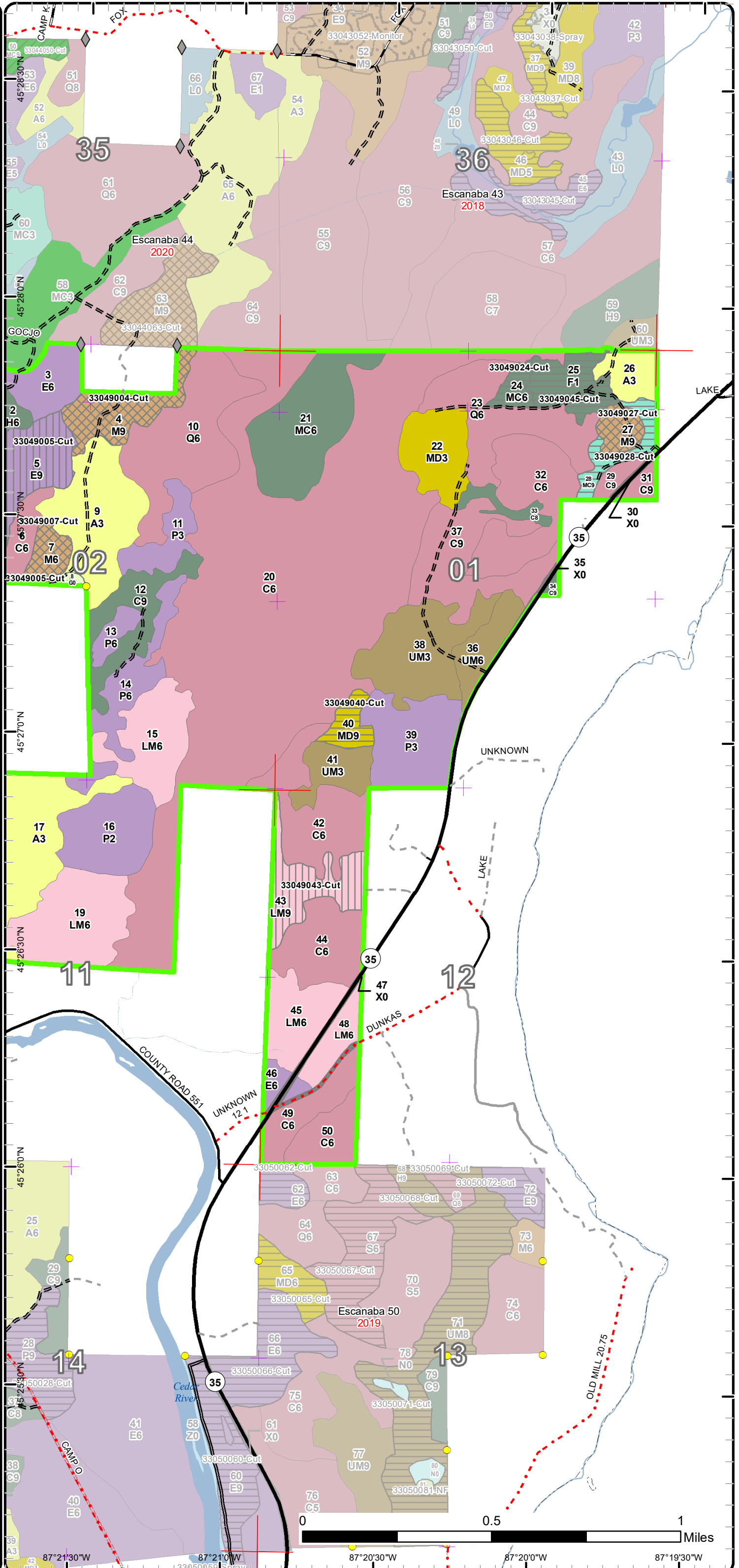


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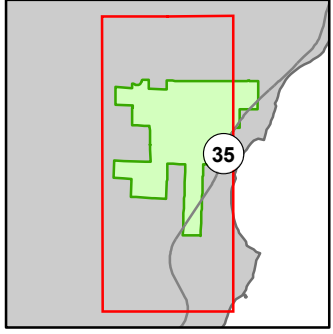
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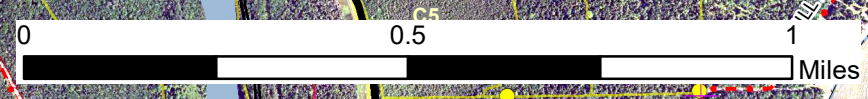
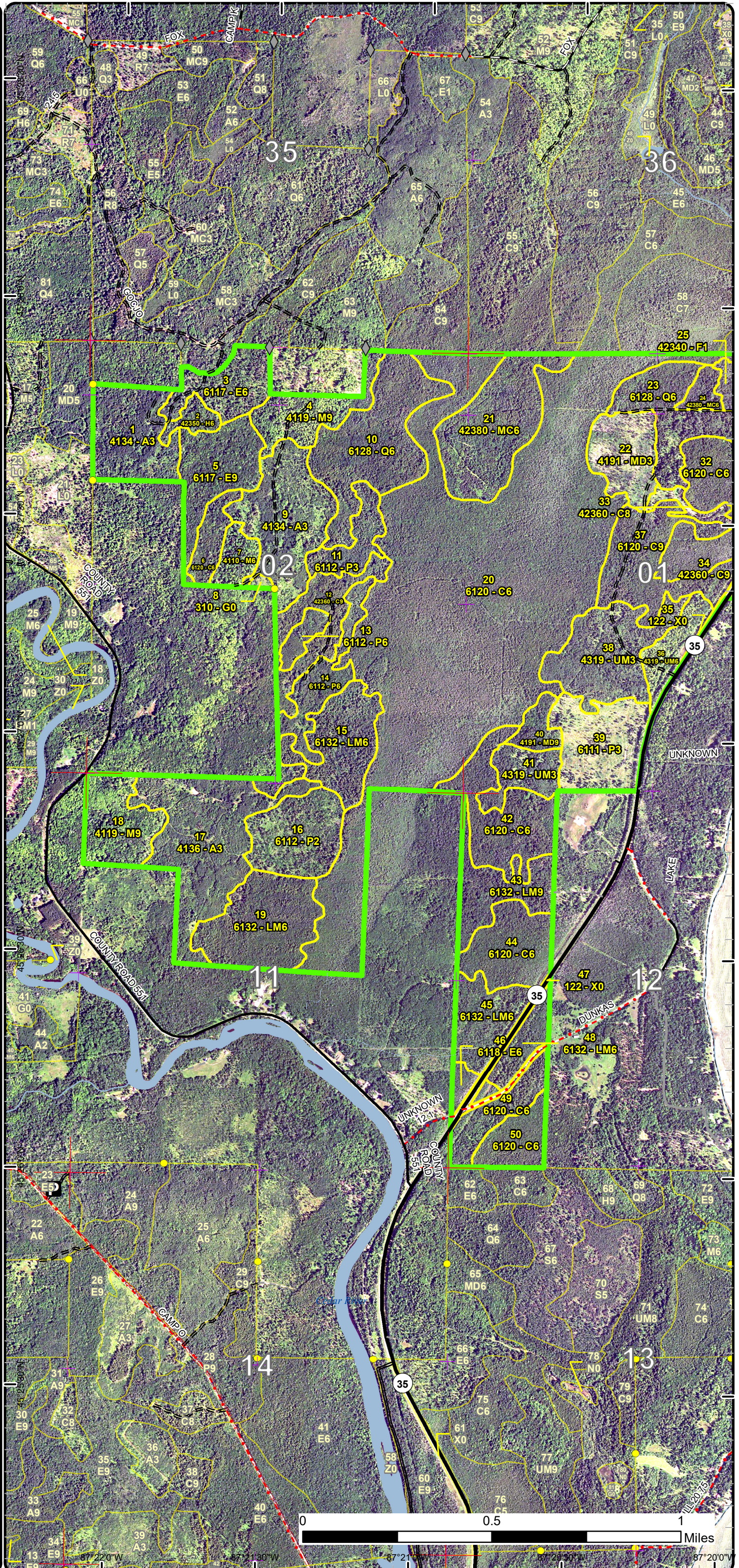
87°21'30"W 87°21'0"W 87°20'30"W 87°20'0"W 87°19'30"W

Stand Boundary Map

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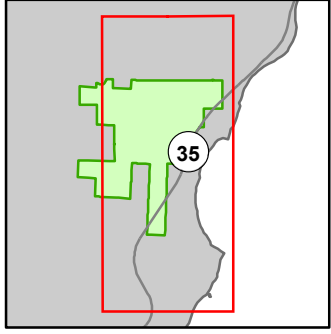
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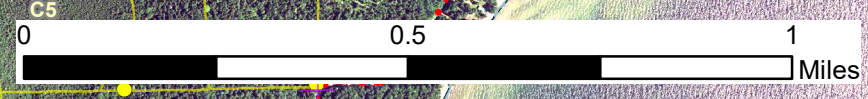
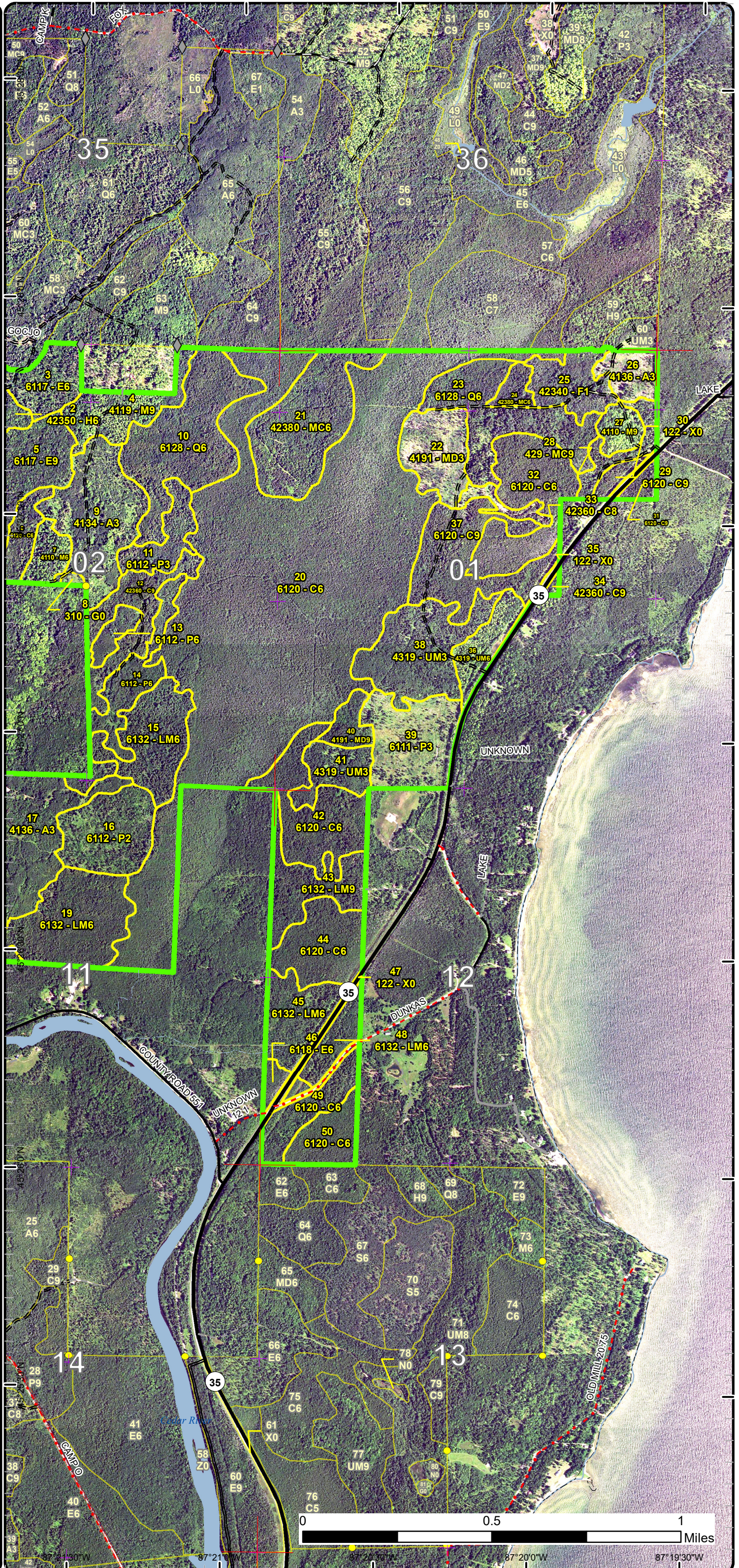
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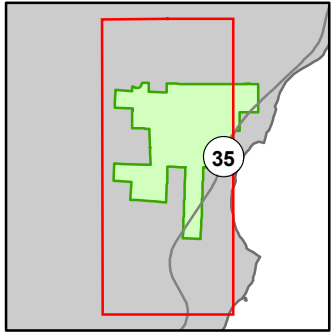
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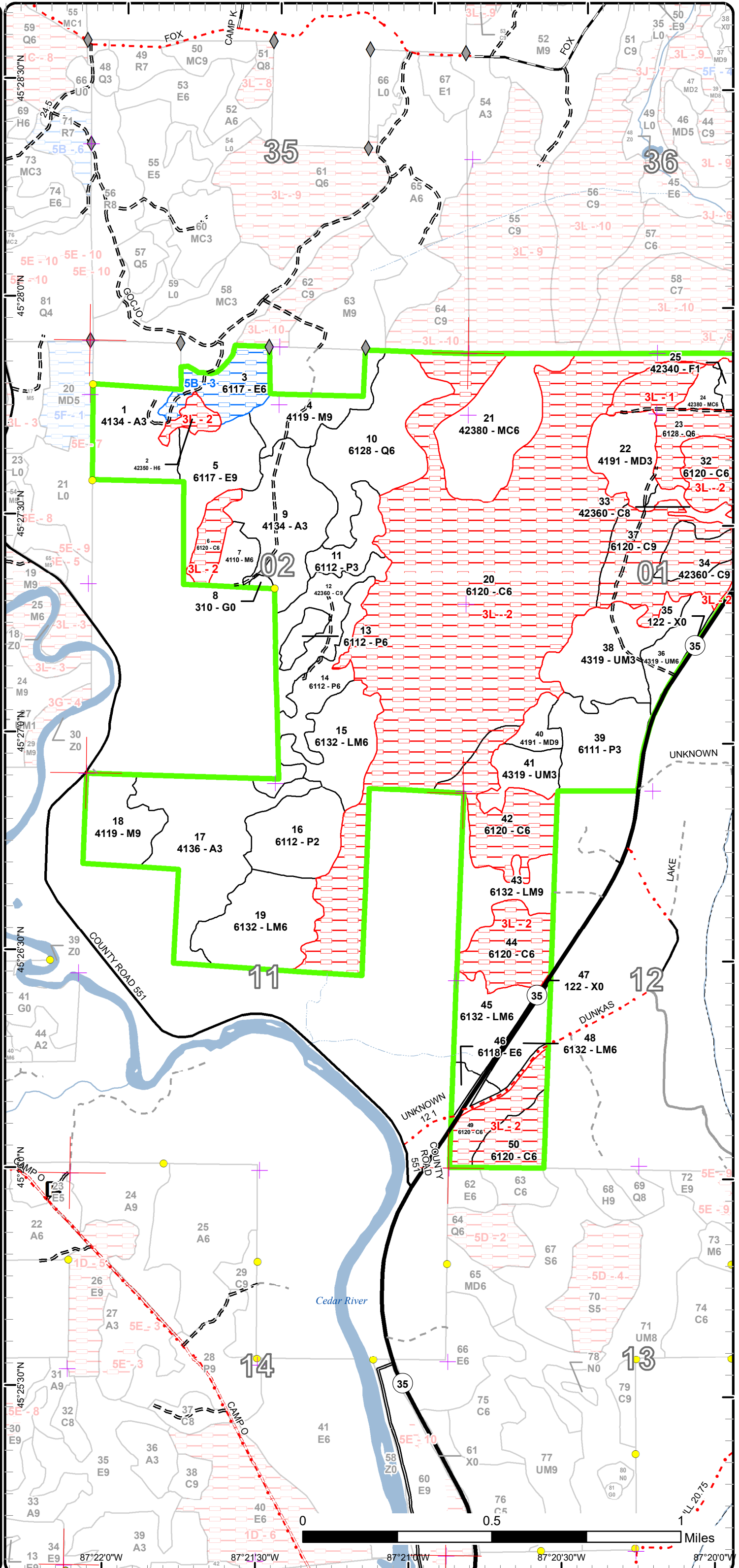
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Special Conservation Areas

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- 5B: Maintain for regeneration purposes
- 3L: Other wildlife concerns
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes

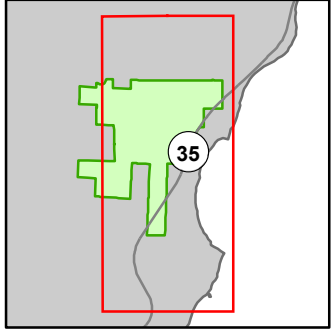


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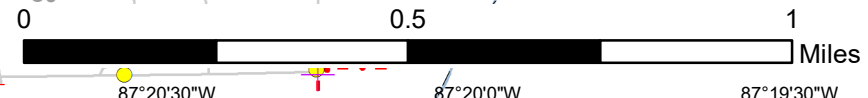
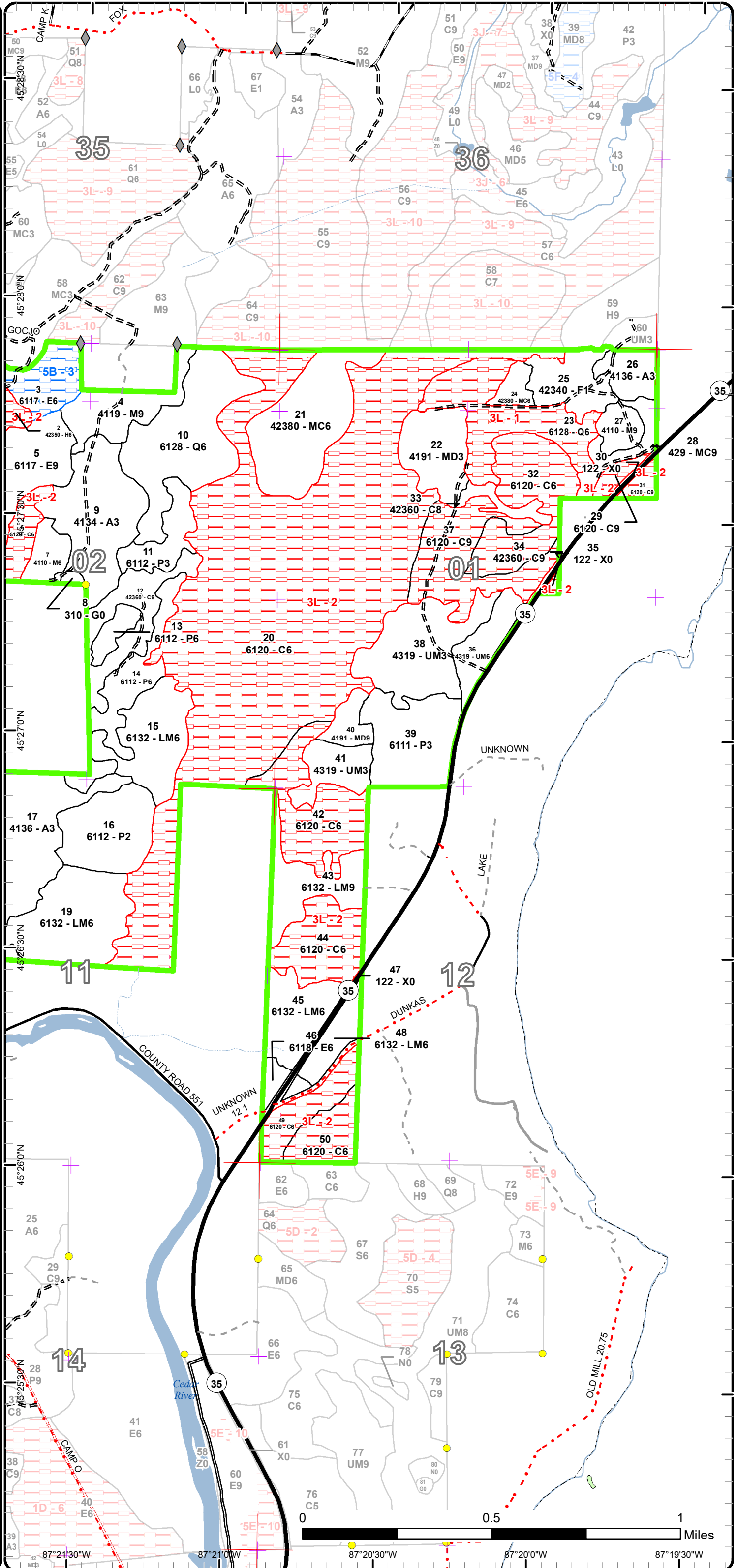
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- Cold Water Lakes
- Great Lakes Islands



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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	12	45	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	155
Cedar	0	0	0	0	0	0	0	0	0	0	0	5	0	567	6	0	0	0	578
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	6
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	35	31	39	6	0	0	0	0	0	0	0	0	0	0	0	0	0	110
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	41	0	0	54	0	95
Lowland Deciduous	0	0	0	0	0	0	5	0	52	0	0	0	0	0	0	0	0	0	57
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	130	0	0	0	0	130
Mixed Upland Deciduous	0	24	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	32
Northern Hardwood	0	0	0	0	0	0	0	0	57	8	0	0	0	0	0	0	0	0	65
Upland Conifers	0	0	0	0	0	6	0	0	10	0	0	0	0	47	0	0	0	0	63
Upland Mixed Forest	0	0	55	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	69
Upland Spruce/Fir	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Total	13	91	131	137	6	6	0	5	10	109	16	0	5	0	791	6	0	68	1393



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 49

Total Compartment Acres: 1,391

Commercial Harvest - 163
 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 Deciduous	0	0	0	0	30	0	0	0	0	30
Lowland Mixed Forest	0	0	0	0	24	0	0	0	0	24
Mixed Upland Deciduous	8	0	0	0	0	0	0	0	0	8
Northern Hardwood	0	65	0	0	0	0	0	0	0	65
Upland Conifers	16	0	0	0	0	0	0	0	0	16
Upland Spruce/Fir	19	0	0	0	0	0	0	0	0	19
Total	44	65	0	0	54	0	0	0	0	163

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	163	0	0	0	0	0	0	1	0	164
Next Step	0	0	0	0	0	0	163	0	0	163
Total	163	0	0	0	0	0	163	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:

4	33049004-Cut	21.8	4119 - Mixed Northern Hardwoods	Sawtimber Well	82	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Selection thin stand according to Compleat Marker. Also, cut all merchantable aspen, balm, cedar, balsam and spruce. Recommendations to thin Northern Hardwood stands every 15 years.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> A mix of species present in the stand.</p> <p><u>Other Comment:</u> 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.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											
5	33049005-Cut	29.8	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	83	141-170	Harvest	Shelterwood	613 - Lowland Mixed Forest	Two-Aged	No
<p><u>Prescription Specs:</u> Shelterwood. Cut all merchantable trees except leave cedar, hemlock and a mix of seed trees.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Mix of conifer and deciduous species of parent stand containing maple, ash, balm, aspen, birch, balsam, spruce, hemlock and cedar.</p> <p><u>Other Comment:</u> Majority of this stand has been purchased with Wildlife Funds. 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> <u>Proposed Start Date:</u> 10/1 /2020</p>											
7	33049007-Cut	9.3	4110 - Sugar Maple Association	Poletimber Well	82	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Thin stand according to Compleat Marker.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Species to promote northern hardwood stand.</p> <p><u>Other Comment:</u> Recommendations to thin Northern Hardwood stands every 15 years. 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.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 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
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8	33049008-NF	1.2	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3102 - Grass	No
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Prescription Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw
Specs: 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.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

18	33049018-Cut	25.8	4119 - Mixed Northern Hardwoods	Sawtimber Well	87	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Selection thin stand according to Compleat Marker bringing stand down to 60-80 basal area. Recommendations to thin Northern Hardwood
Specs: stands every 15 years.

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

Acceptable Mixed regeneration of sugar maple, red maple, ash, basswood and birch
Regen:

Other Selection harvesting may be the most misunderstood system and is certainly the most complex. When stands of trees become overly dense,
Comment: 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

24	33049024-Cut	5.8	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	42	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Two-Aged	No
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Prescription Cut all merchantable trees except hemlock and cedar. Only cut cedar for operability of harvesting equipment.
Specs:

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

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

Other Stand is affected by spruce budworm and needs to be treated due to forest health issues and utilize products before mortality.
Comment:

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
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27	33049027-Cut	8.2	4110 - Sugar Maple Association	Sawtimber Well	92	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
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Prescription Selection thin stand according to Compleat Marker lowering basal area to 60-80. Recommendations to thin Northern Hardwood stands every 15 years.
Specs:

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

Acceptable maple, basswood, ash, beech,
Regen:

Other 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
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

28	33049028-Cut	10.4	429 - Mixed Upland Conifers	Sawtimber Well	77	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Uneven-Aged	No
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Prescription Clearcut with retention: cut all merchantable trees except hemlock and some large healthy looking pine. Minimize damage to advanced regeneration. Balsam, spruce and pine are loosing needles and pale coloration.
Specs:

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

Acceptable Aspen, balm, balsam, pine, maple, basswood, spruce
Regen:

Other 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.
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

40	33049040-Cut	8.1	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	93	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Two-Aged	No
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Prescription Cut all merchantable trees except leave hemlock and some large seed trees including birch. Stand is mature with mortality in the birch, spruce and fir.
Specs:

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

Acceptable maple, birch, ash, spruce, balsam, pine, cedar
Regen:

Other 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.
Comment:

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
43 33049043-Cut	24.0	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	130	Unspecified	Harvest	Shelterwood	613 - Lowland Mixed Forest	Two-Aged	No
<p><u>Prescription Specs:</u> Cut all merchantable trees except cedar, hemlock and a mix of large seed trees. Short lived species are mature with mortality starting. This area had been prescribed in the past but contractors defaulted on it. Remnant paint lines still present in parts of the stand.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Birch, maple, balsam, spruce, pine, balm, aspen</p> <p><u>Other Comment:</u> Most of the stand was purchased with Wildlife Funds. 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></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
25 33049045-Cut	19.4	42340 - Upland Spruce/Fir	Sapling Poor	1	Immature	Harvest	Clearcut	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than 3" inches; except retain some cedar seed trees.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen, balm, maple, and spruce/fir.</p> <p><u>Other Comment:</u> In 2016 due to the Spruce Budworm Outbreak this stand had a treatment added with an Out of Entry Request to minimize loss.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 1 /1 /2016</p>										

Total Treatment Acreage Proposed: 163.8

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Beaudou : Examiner

Compartment: 49
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	3L
		With Condition	Not Available			
154	154	0	0	Aspen		
578	30	0	548	Cedar		548
6	0	0	6	Hemlock		6
1	1	0	0	Herbaceous Openland		
110	110	0	0	Lowland Aspen/Balsam Poplar		
95	54	0	41	Lowland Conifers		41
57	35	22	0	Lowland Deciduous	22	
130	130	0	0	Lowland Mixed Forest		
32	32	0	0	Mixed Upland Deciduous		
65	65	0	0	Northern Hardwood		
63	63	0	0	Upland Conifers		
69	69	0	0	Upland Mixed Forest		
20	20	0	0	Upland Spruce/Fir		
12	12	0	0	Urban		
1,391	775	22	594	Total Forested Acres	22	594
	56%	2%	43%	Relative Percent		

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3L: Other wildlife concerns	41	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Stand had short lived species harvested 20 years ago. This produced a two aged stand due to the residual cedar and hemlock. Stand data indicates ready for silvicultural treatment but not able to harvest the cedar and hemlock due to the Deer Winter Range Guidelines. The species that are regenerating will be available for harvest in the future when meet silvicultural criteria or forest health concerns.</p>							
2	Unavailable	3L: Other wildlife concerns	554	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: High amount of northern white cedar and/or hemlock. Lack of treatment due to Deer Winter Range Guidelines.</p>							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Beaudou : Examiner

Compartment: 49
Year of Entry: 2021

3	Available	5B: Maintain for regeneration purposes	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Residual basal area is providing shade to discourage pine weevil in the white pine regeneration.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
1	4134 - Aspen, Spruce/Fir	Sapling Well	33.2	25	Immature	N/A	Stand was treated in 1994 under contract 33-005-89-01. Cedar, hemlock, pine and beech were retained. Good mix of regeneration with residual hemlock and cedar patches. Mostly upland with some areas of lowland. Trace amounts of cedar, birch, ash and beech.																																					
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2	42350 - Upland Hemlock	Poletimber Well	6.0	130	Unspecified	N/A	Slight upland areas support denser and larger hemlock.																																					
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3	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	21.8	89	1-50	N/A	Stand was treated in 2011 under contract 33-001-11-02. Shelterwood harvest to promote healthy white pine growth. High regeneration density of white pine and some other conifers. Maple and ash stump sprouts have been browsed off. Trace amounts of birch, beech and red pine.																																					
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4	4119 - Mixed Northern Hardwoods	Sawtimber Well	21.8	82	81-110	N/A	Stand thinned in 2004 under contract 33-039-01-01. Variable basal area, a thinning would better even out the spacing. Deciduous regen has been browsed off. Conifer regeneration doing better. Trace amount of cedar, hemlock, white pine, beech and birch. The part of the stand to north east that wraps around the private is more of an aspen type but too small to delineate separate. With treatment, this area will be more of a shelterwood harvest.																																					
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6	6120 - Lowland Cedar	Poletimber Well	10.7	135	Unspecified	N/A	Wet stand with the majority being cedar. Other species have on the average smaller diameter. Trace of white pine and hemlock.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
7	4110 - Sugar Maple Association	Poletimber Well	9.3	82	81-110	N/A	Stand was treated in 2004 under contract 33-039-01-01. Mostly upland stand with a wet area in the middle but probably dry during the summer. Aspen saplings are in small patches. This is a small hardwood stand that is part of the larger stand that is on private property. Variable basal area, thinning will better space out crop trees. Trace amounts of beech, yellow birch, spruce and cedar.																																																	
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8	310 - Herbaceous Openland	Nonstocked	1.1		Unspecified	No	Small grass opening that is filling in with cherry and conifers.																																																	
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9	4134 - Aspen, Spruce/Fir	Sapling Well	44.8	15	Immature	N/A	Stand was treated in 2004 under contract 33-039-01-01. Residual large seed trees of spruce, hemlock, cedar, ash, maple. Good regeneration of aspen, balm and red maple with conifer seeding in. Trace amounts of cedar, hemlock, sugar maple, ash, basswood and spruce seed trees.																																																	
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10	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	54.2	139	Unspecified	N/A	Cedar stand of better quality due to slight upland conditions than the large cedar stand to the east. Mix of other species. Some areas of short lived species were cut along with some strip clear cuts. Strips containing regeneration of paper birch, green ash, red maple, spruce and balsam.																																																	
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11	6112 - Lowland Aspen	Sapling Well	14.7	24	Unspecified	N/A	Stand was treated in 1995, patches of cedar were left, overall stand is coming back to balm, aspen and ash. Strips to the east were cut in 1968 filling in with spruce and balsam tag alder in the understory.																																																	
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12	42360 - Upland Cedar	Sawtimber Well	24.1	139	Unspecified	N/A	Some areas of the stand had the short lived species removed along with smaller diameter cedar. Not much regeneration at this point. Slight upland with nice cedar and some patches of mostly hemlock.																																																	
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13	6112 - Lowland Aspen	Poletimber Well	6.3	38	Unspecified	N/A	Stand was treated in 1981 under contract 37-80. Aspen and balm regeneration filling in open areas reported last inventory cycle. Trace amounts of paper birch, cedar, hemlock and beech.																																																			
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14	6112 - Lowland Aspen	Poletimber Well	24.2	23	Immature	N/A	Harvesting occurred during the winters of 1994 and 1995 under contract 33-055-88-01. Cedar, hemlock, pine, beech and butternut was retained. Some windthrown cedar was salvaged in 1999. Mixed regeneration but heavier to balm and aspen.																																																			
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15	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	30.8	138	Unspecified	N/A	Stand was treated in 2004 under contract 33-040-01-01. Large cedar and hemlock were retained. There is mixed regeneration in the more open to sunlight areas. Trace amounts of white pine, birch and red maple.																																																			
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16	6112 - Lowland Aspen	Sapling Medium	30.7	15	Immature	N/A	Stand was treated in 2004 under contract 33-040-01-01. Trees retained included cedar over 8" dbh, hemlock, elm, pine and mix of seed trees. Most of the cedar have been windthrown and laying on the ground. There is some large diameter deciduous seed trees that are still standing. Saplings of balm, ash, maple, birch are filling in the open areas. Trace of hemlock and white pine.																																																			
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17	4136 - Aspen, Mixed Conifer	Sapling Well	64.3	21	Immature	N/A	Stand was treated during the winter of 1997-1998 under contract 33-022-96-02. Cedar, hemlock, pine and some seed trees were retained during the harvest. Good mixed regeneration with dense sapling and pole size trees. Some lowland areas containing the tag alder.																																																			
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18	4119 - Mixed Northern Hardwoods	Sawtimber Well	25.8	87	111-140	N/A	This stand was thinned in 1996 under contract 33-022-96-02. There is some lowland areas and species indicative of it. Nice hardwood stand that is ready for a selection thinning. Basal area is variable across the stand, a thinning will help make a more uniform stand releasing the high basal areas. Trace amounts of beech, hemlock, spruce, cedar and balsam.																																																				
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19	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	41.4	139	Unspecified	N/A	This stand was treated in 1965 with clearcut strips. These strips have high densities of balsam, paper birch, black spruce and ash with diameters 3-6" up to few 8". In parent stand is cedar with mature trees of those species with mortality setting in. Trace amounts of hemlock, tamarack and white pine.																																																				
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20	6120 - Lowland Cedar	Poletimber Well	352.9	139	Unspecified	N/A	Some areas very wet and more open with tag, grass, cattails that progress to poor quality cedar with some areas of decent quality swamp cedar. Historical strip cuts in areas of higher density none cedar species.																																																				
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21	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	47.1	139	51-80	N/A	Slight upland stand that has a diversity of species surrounded by a cedar swamp. Stand was treated a while ago retaining large cedars. Regenerated areas still have old flat stumps mossed over. Shooting lanes can be seen on the imagery. Trace amounts of beech, hemlock, birch and pine.																																																				
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22	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	23.6	5	Immature	N/A	This stand was cut in 2014 under contract 33-004-11-01. All trees cut except cedar, ash and hemlock. Lots of ash on west side some had to be cut for other species removal. Good aspen regeneration with balm in the lower areas. Trace amount of hemlock and birch.																																																				
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23	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	40.6	135	Unspecified	N/A	This stand was harvested during the winter of 1998-1999. Cedar and a mix of large seed trees were retained. Regeneration filling in the opened areas. Good stand diversity.																																																						
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24	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	5.8	42	81-110	N/A	The spruce and balsam are not looking very healthy with possible Spruce Budworm starting in the stand. A strip of cedar would separate the recent SBW harvest in stand 17 with this treatment.																																																						
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25	42340 - Upland Spruce/Fir	Sapling Poor	19.5	1	Immature	N/A	Stand was treated the winter of 2019 under contract 33-001-17-01. It was identified during the Spruce Budworm surveillance as a stand needing treatment. Harvest was completed March of 2019. Balsam from the sub-canopy along with sub-merchantable ash and spruce remain to give a canopy near 25%. Next YOE the stand should have highest concentration of aspen and balm.																																																						
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26	4136 - Aspen, Mixed Conifer	Sapling Well	11.6	5	Immature	N/A	Stand was treated in 2014 under contract 33-004-11-01. Cedar and white pine were retained. Good regeneration mix of aspen and balm with some conifer getting started. Trace of ash.																																																						
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27	4110 - Sugar Maple Association	Sawtimber Well	8.2	92	111-140	N/A	Stand was thinned in 1997 under contract 33-031-96-01. Trace amount of cedar, hemlock and white pine.																																																						
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28	429 - Mixed Upland Conifers	Sawtimber Well	10.4	77	81-110	N/A	Stand treated in 1998 under contract 33-031-96-01. High amount of residual retained that is looking unhealthy in the spruce, fir and pine. Treatment to utilize mature trees before mortality becomes prevalent. Trace of red pine, black spruce, and black ash.																																																						
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29	6120 - Lowland Cedar	Sawtimber Well	4.3	119	141-170	N/A	Sparser cedar stand with tops thinning. Short lived species mortality with regeneration in the open areas.																																											
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30	122 - Road/Parking Lot	Nonstocked	1.7		Unspecified	No	M-35 State Highway blacktop.																																											
31	6120 - Lowland Cedar	Sawtimber Well	4.1	130	Unspecified	N/A	Large tall cedar stand with much of short lived species laying on the ground. Some regeneration of spruce and fir in open areas and along the property lines that had been clear cut some time ago. Trace amount of balm.																																											
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32	6120 - Lowland Cedar	Poletimber Well	38.9	136	Unspecified	N/A	Not a real wet stand because it is slight upland. Cedar better quality with mortality of other species. Trace amount of balm, red maple, hemlock and aspen.																																											
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33	42360 - Upland Cedar	Sawtimber Medium	6.0	145	Unspecified	N/A	Stand was treated in 2015 under contract 33-004-11-01. Slight upland ridges fingering around surrounded by cedar swamp. Short lived species were cut out. Deciduous sprouts have been browsed off with conifer seedlings slowly filling in the stand.																																											
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34	42360 - Upland Cedar	Sawtimber Well	1.0	119	81-110	N/A	Cedar with a mix while most of balsam and spruce are on the ground. Regeneration in open areas. Trace of balsam and hemlock.																																											
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35	122 - Road/Parking Lot	Nonstocked	3.3		Unspecified	No	M-35 State highway blacktop.																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
36	4319 - Mixed Upland Forest	Poletimber Well	14.1	87	51-80	N/A	This stand was thinned in 1997 under contract 33-031-96-01. Thick regeneration of balsam and spruce with 5-10' cedar in dense areas. Shorter cedar in less dense spruce fir areas. Maple tops dying out. Trace amount of ash, beech, yellow birch and hemlock. Too much of regeneration would be damaged if removed the maple.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		10	Pole	8	87	Balsam Fir		
Sugar Maple		25	Pole	8	87	White Spruce		
Paper Birch		10	Pole	6		Northern White Cedar		
Basswood		10	Log/Pole	10				
Balsam Fir		15	Sapling/Pole	4				
White Spruce		15	Pole/Sapling	4				
Northern White Cedar		15	Log/Pole	12				
37	6120 - Lowland Cedar	Sawtimber Well	39.6	130	Unspecified	N/A	Better quality cedar stand that has a slight upland compared to adjacent stand to north and west.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Northern White Cedar		80	Log	12	130	Balsam Fir		
Black Spruce		10	Pole	8		Black Spruce		
38	4319 - Mixed Upland Forest	Sapling Well	40.2	11	Immature	N/A	This stand was treated in 1998 under contract 33-031-96-01. Cedar and hemlock were retained as well as some spruce and balsam seed trees. Good regeneration of aspen and balm with some conifer seedlings present as well.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Northern White Cedar		20	Log	10	145			
Quaking Aspen		35	Sapling/Pole	3	11			
Balsam Poplar		15	Sapling/Pole	3				
Balsam Fir		10	Sapling/Pole	2				
White Spruce		10	Sapling/Pole	2				
39	6111 - Lowland Balsam Poplar	Sapling Well	34.5	4	Immature	N/A	Stand treated in 2015 under contract 33-004-11-01. Balm filling in low areas. Small patch of poor quality sugar maple too small to map by itself.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir		20	Sapling	1	4	Balsam Fir		
Northern White Cedar		10	Pole	8		Ironwood		
Quaking Aspen		20	Sapling	1	4	Black Raspberry		
Balsam Poplar		45	Sapling	1	4	White Spruce		
40	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	8.1	93	81-110	N/A	This is a mix of upland and lowland mature timber that has mortality. Ash will also be susceptible to Emerald ash borer. Trace amount of hemlock.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		30	Log	12	93	White Spruce		
Northern White Cedar		15	Log/Pole	10		Balsam Fir		
Balsam Fir		10	Pole	8				
Green Ash		30	Pole	8				
Red Maple		10	Log	14				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
41	4319 - Mixed Upland Forest	Sapling Well	14.8	11	Immature	N/A	Stand treated during the winter of 1998 under contract #33-031-96-01. Some areas open but filling in with aspen, balm, spruce and fir.																																																						
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42	6120 - Lowland Cedar	Poletimber Well	36.4	139	Unspecified	N/A	Pole cedar healthy with mix of other species. Trace of hemlock and yellow birch.																																																						
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43	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	24.0	130	Unspecified	N/A	This stand was set up for timber sale in the past but contractors defaulted. Mature with mortality occurring but merchantable trees still making worth while harvesting to get regeneration and a healthier stand. There is some regeneration patches of balm, spruce and balsam. Trace amounts of yellow birch and hemlock.																																																						
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44	6120 - Lowland Cedar	Poletimber Well	27.5	130	Unspecified	N/A	Low wet cedar stand that has cedar mortality along M-35 with ash present.																																																						
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45	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	22.8	130	Unspecified	N/A	Stand was treated in 1996 under contract 33-037-92-01. Cedar, hemlock and some seed trees were retained. Regeneration filling in the cut areas. Trace of hemlock.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
46	6118 - Lowland Deciduous with Cedar	Poletimber Well	5.1	63	Unspecified	N/A	Poor quality small diameter lowland ash stand with cedar mortality.																																													
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47	122 - Road/Parking Lot	Nonstocked	6.6		Unspecified	No	M-35 State highway and Dunkas County gravel road.																																													
48	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	11.2	130	Unspecified	N/A	This stand was cut in 1995 under contract 33-037-92-01. Cedar and large seed trees retained. Some areas wet with only tag and black ash. Trace amount of hemlock, white pine, bigtooth aspen and red maple.																																													
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49	6120 - Lowland Cedar	Poletimber Well	16.6	130	Unspecified	N/A	Stand was treated in 1995 under contract 33-037-92-01. Skid trail and more open areas have mixed species regeneration. Denser areas of residual cedar only have some balsam and spruce regeneration. Cedar regeneration to 5' tall in open/balm areas.																																													
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50	6120 - Lowland Cedar	Poletimber Well	15.7	130	Unspecified	N/A	Smaller diameter cedar stand that is wetter and with mixed lowland deciduous. Trace amount of tamarack, balsam, red maple, hemlock, white pine and green ash.																																													
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