



# Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41100

Entry Year 2025

Acreage: 850

County Delta

Management Area: Escanaba Lake and Till Plain

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**Stand Examiner:** Adam Petrelius

## **Legal Description:**

T37N R19W Sections 2, 3, 10, 11, and 14

## **Identified Planning Goals:**

The main goal in this compartment is to conduct multiple resource management for current and future generations. It lies within the Lake Michigan Shoreline Management Area. Vegetative management in the Lake Michigan Shoreline Management Area will emphasize protection of the unique character of the area and all of the threatened, endangered, and special concern species while providing recreational opportunities, timber products and wildlife habitat.

## **Soil and topography:**

The topography in this compartment is mostly flat; the soils are mainly shallow layers directly over limestone bedrock. The soil types are mainly poorly drained organics with some loams mixed throughout.

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

Ownership in and around the compartments is somewhat fragmented and the Lake Michigan Shoreline is continually being developed with summer homes. Fragmentation is leading to more Land Use problems since new gates are emerging all the time.

## **Unique Natural Features:**

Various rare plant are found growing on the Limestone Bedrock Glade that exists here at the tip of the Garden Peninsula.

## **Archeological, Historical, and Cultural Features:**

Sites are present and documented at the Office of the State Archaeologist.

## **Special Management Designations or Considerations:**

The entire compartment is classified as obligate winter range for deer. An ERA also exists for Limestone Bedrock Lakeshore. A large portion of the compartment is also classified as a non-dedicated natural area. Most of it was previously designated as potential old growth, but this classification is being removed since these areas do not meet our current definition of old growth.

Whitetail deer concentrate very heavily in this compartment during winter months. The large presence of deer each winter here at the tip of the Garden Peninsula causes regeneration issues. Harvests in the past 10 to 20 years down here are barren stump fields and the entire compartment is factor limited because we are unable to achieve desirable regeneration here.

## **Watershed and Fisheries Considerations:**

This compartment borders Lake Michigan on the eastern shore of Garden Peninsula. A 100-foot, plus 5 feet per 1% increase in slope, buffer is recommended for Lake Michigan shoreland to protect these areas in accordance with Best Management Practices.

## **Wildlife Habitat Considerations:**

Located in the Escanaba/Door Peninsula ecological sub-subsection and along the Lake Michigan shoreline on the Garden Peninsula, this compartment constitutes the southern tip of the Garden Peninsula (Point Detour). The General Land Office surveyor notes (circa 1850) show cedar, hemlock, white birch, and aspen to have been the dominant forest species at the time. The notes also indicate a fair amount of evidence of fire and windthrow within the area. Current forests are dominated by cedar in the shoreline and wetland areas with spruce/fir and aspen prevailing on the remaining uplands. Wildlife habitat objectives include maintaining closed canopy conifer forests for wintering deer and migrating warblers, protecting habitat for sensitive plant species, and providing early successional deciduous forest stands. Wildlife species of special interest utilizing this compartment include white-tailed deer, ruffed grouse, and woodcock.

## **Mineral Resource and Development Concerns and/or Restrictions**

No known potential exists for commercial oil & gas production in this part of the state, and there is no known metallic mineral potential in this area. The nearest known active sand/gravel pit is more than three miles south. The compartment is dominated by wetlands, which would inhibit significant surface mining. No current mineral leasing activity exists in the

area, and there are no notable prospects for mineral development in the area at this time. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

**Vehicle Access:**

Vehicle access is decent through the compartment; the Department currently holds easements through the private land in Sections 2 and 11. Due to the low topography and organic soils the roads often become filled with standing water after large rain events and during spring break-up. However, due to the exposed bedrock roads are usually passable even in high water.

**Survey Needs:**

None.

**Recreational Facilities and Opportunities:**

There are no developed recreation facilities within this compartment.

**Fire Protection:**

Surrounded by water, weather conditions limit fire potential in this area along with lack of human activity. Some previous fires have occurred on Poverty Island. Access would be difficult, and the compartment is most prone to lightning fires during the dry summer periods.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

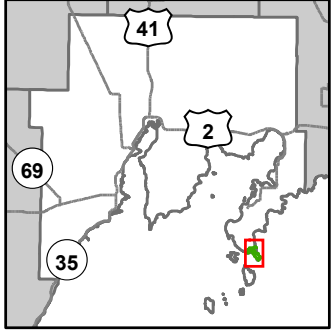
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

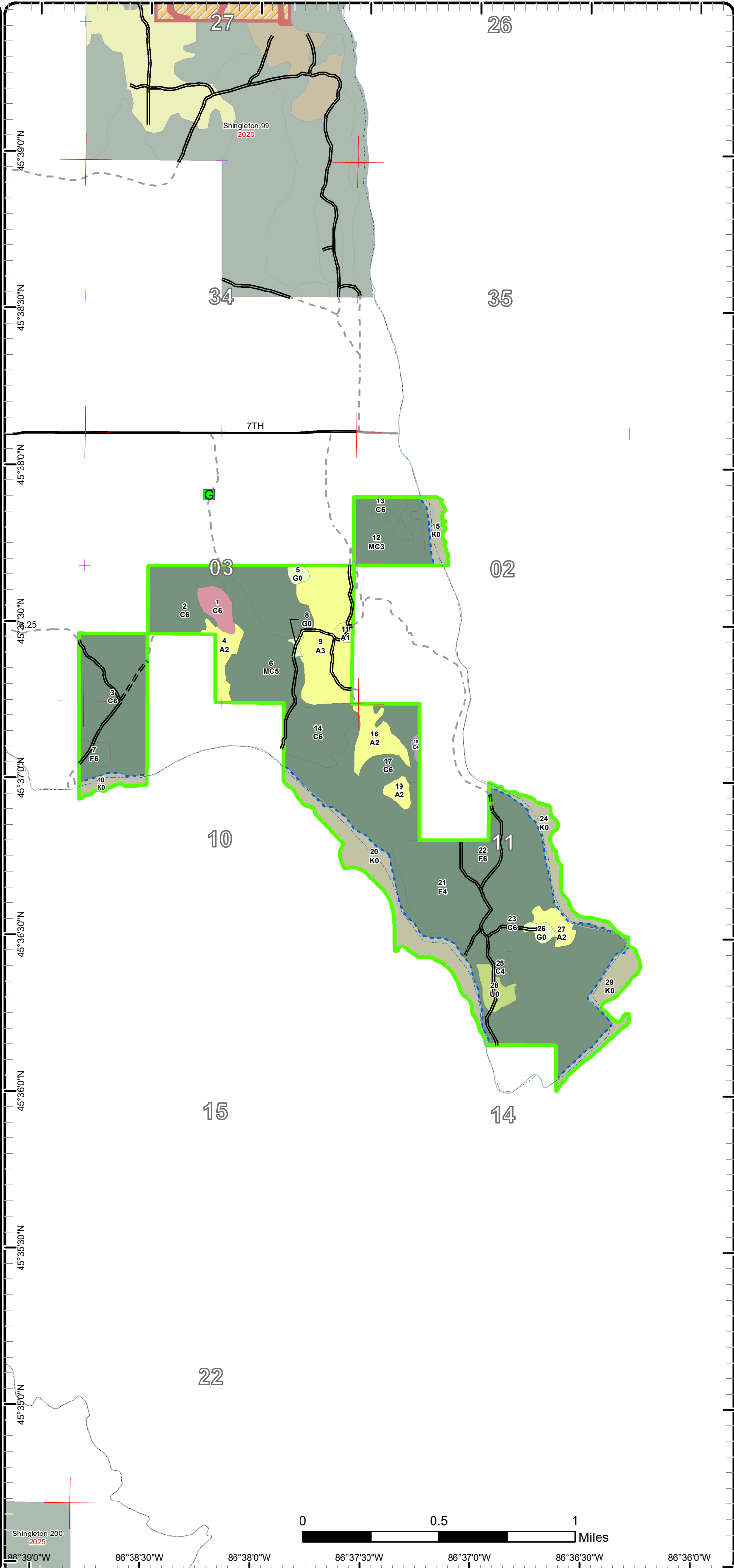
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 100  
 T37N,R19W, Sec: 2, 3, 10, 11, 14  
 County: Delta  
 Unit: Shingleton  
 Mgmt Area: Escanaba Lake and Till Plain  
 YOE: 2025  
 Acres: 850.1 GIS Calculated  
 Examiner: Adam Petrelius  
 Map Revised: 8/21/2023  
 Map Phase: Review

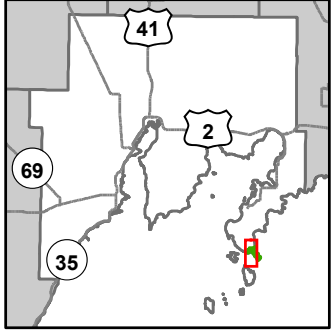


- Miris Corners
- + Remonumented Section Corners
- - - Counties
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- Private - Paved Road
- - - Private - Dirt / Gravel Road
- Shoreline
- G Gate
- Compartment Boundary
- Treatments with Site Conditions
- 413 - Aspen
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 720 - Exposed Rock

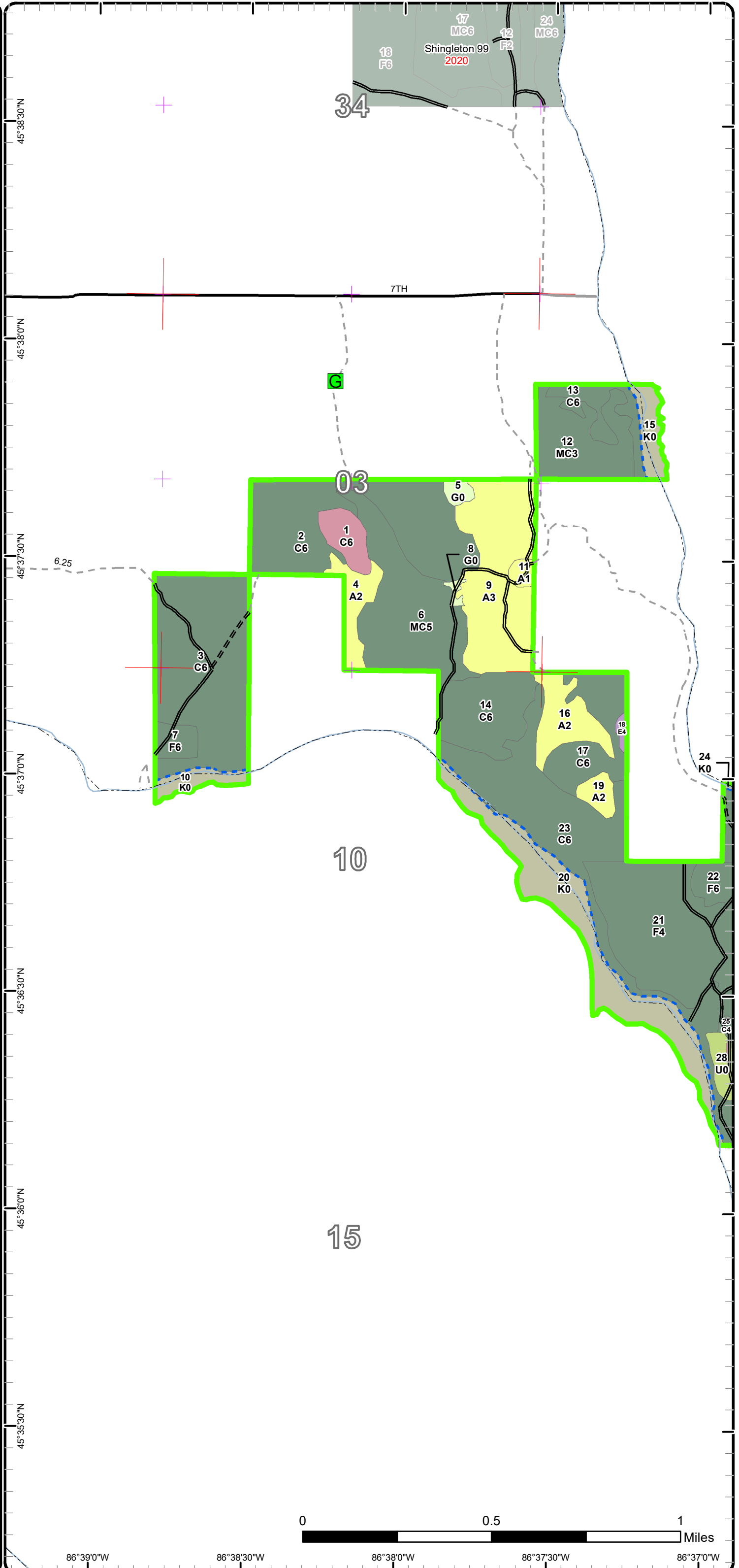


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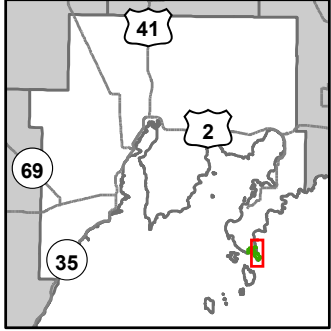


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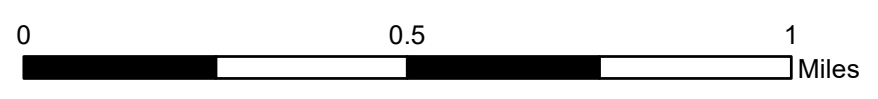
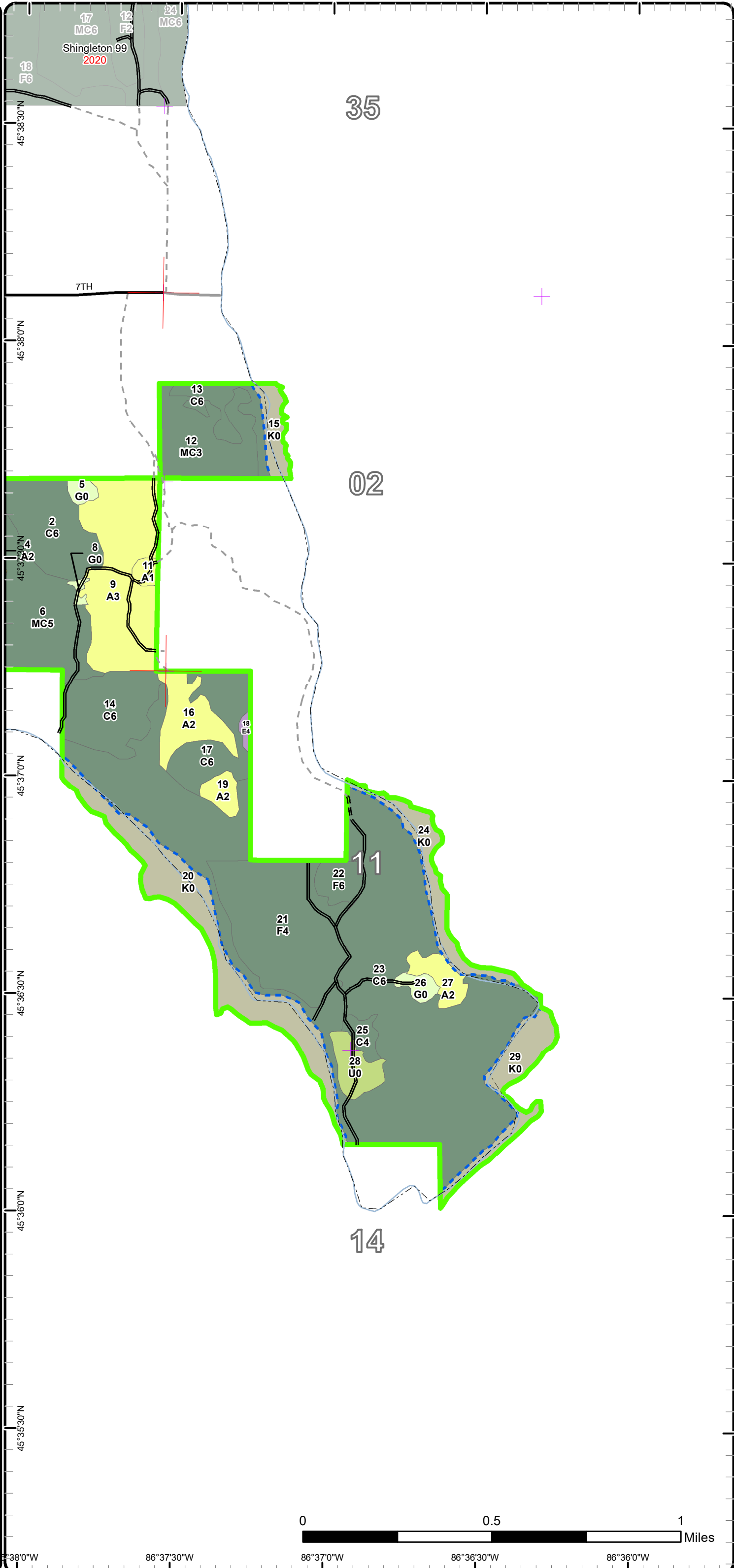


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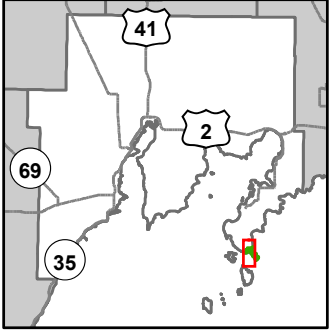
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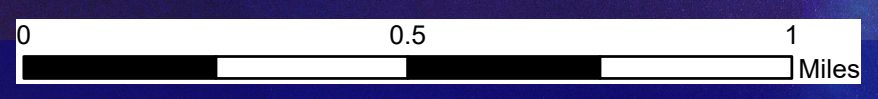
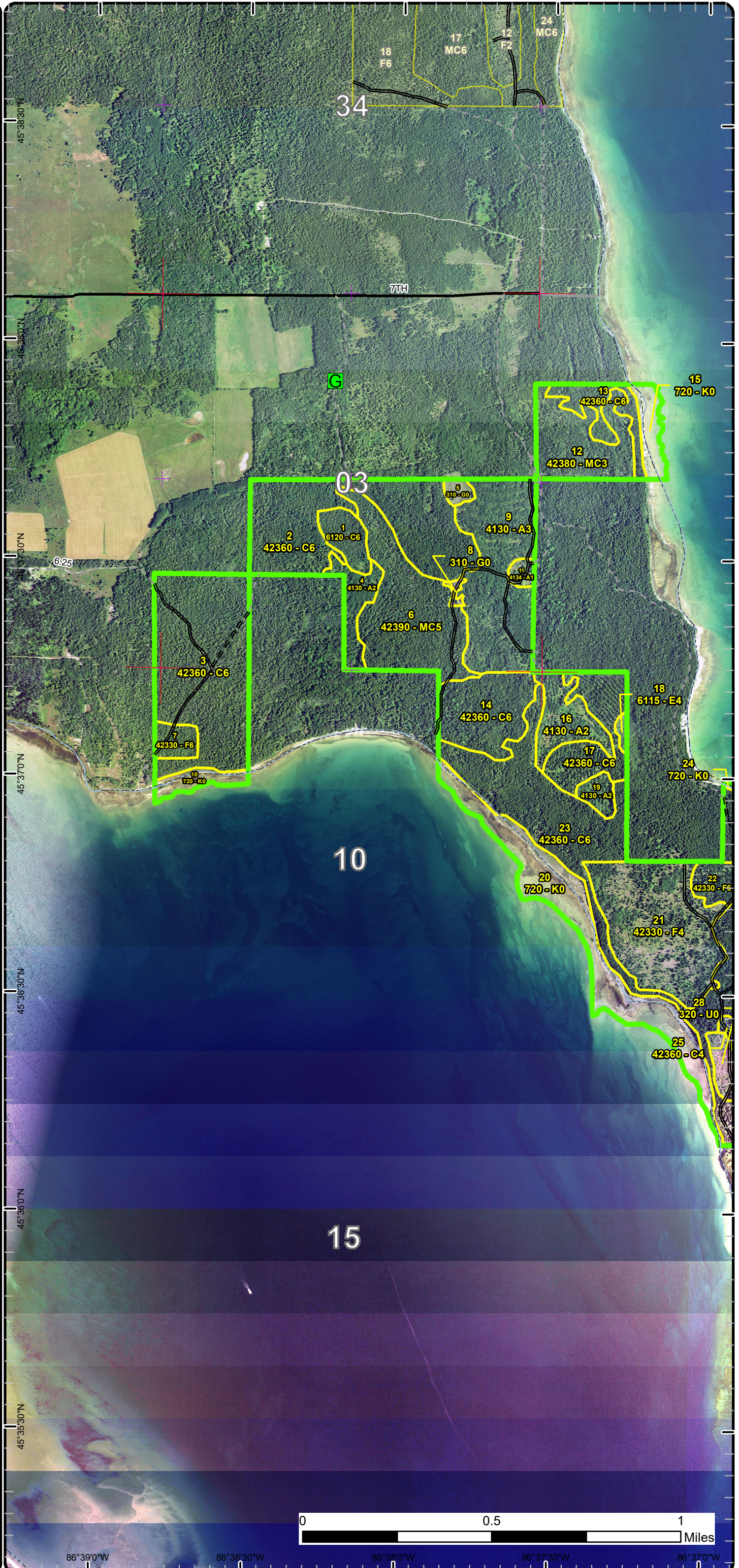
86°38'0"W      86°37'30"W      86°37'0"W      86°36'30"W      86°36'0"W

# Stand Boundary Map

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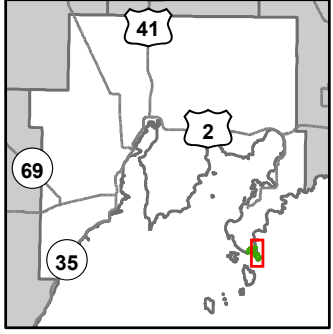
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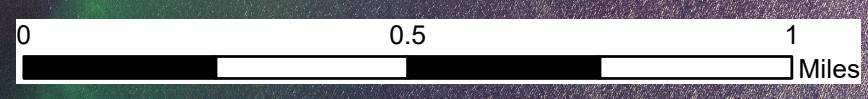
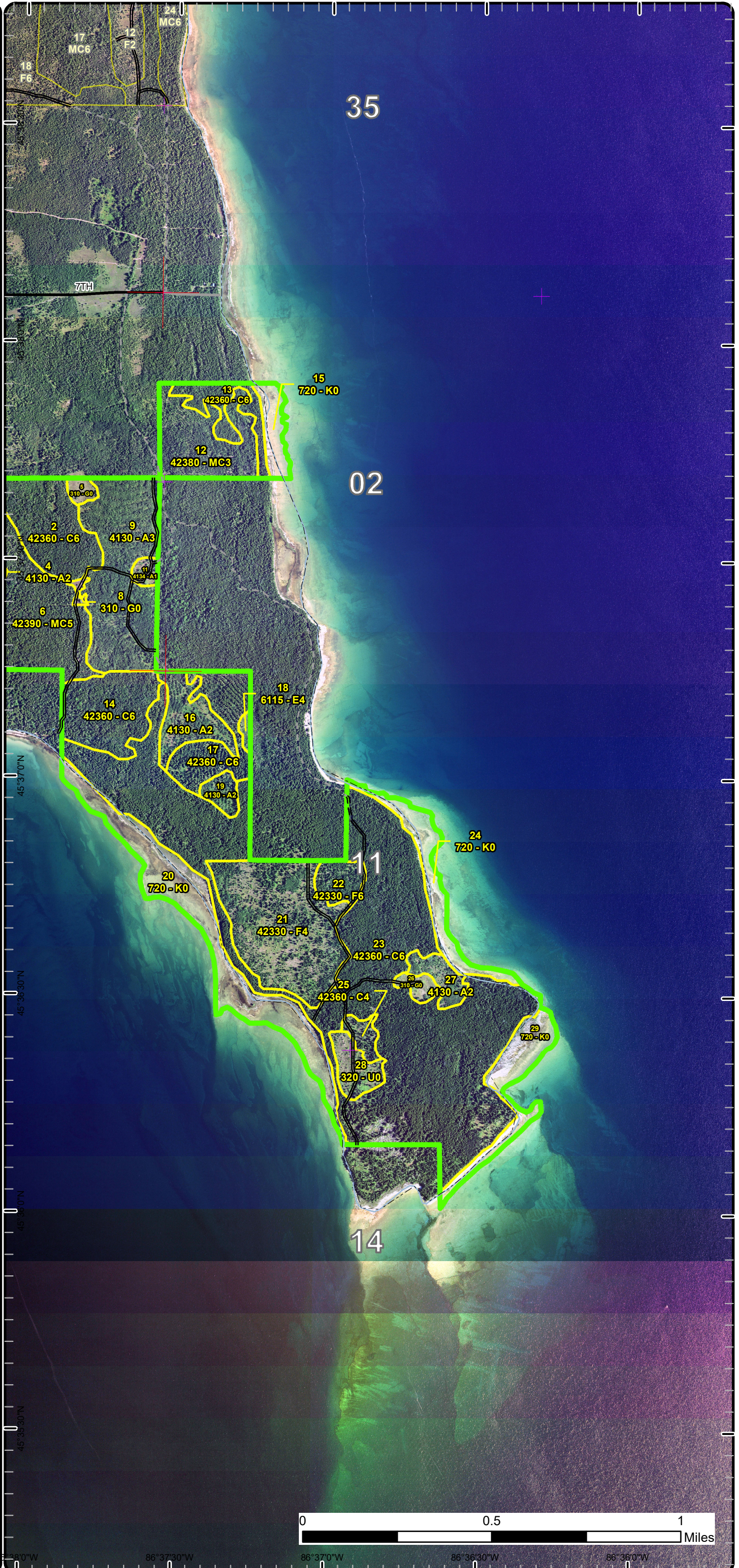
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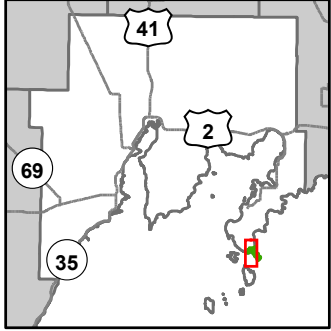
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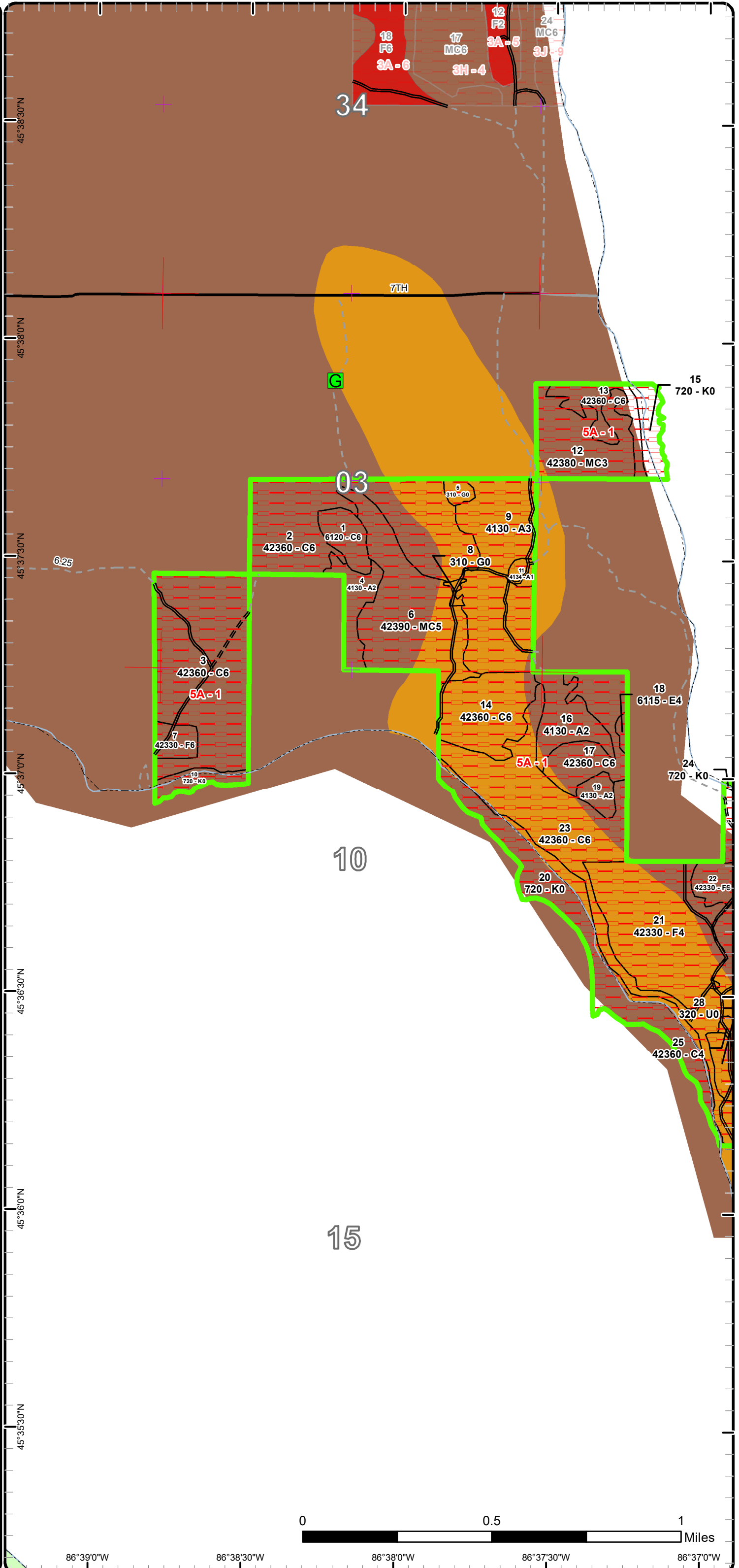
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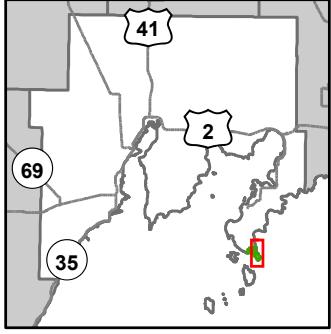
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- 5A: Not able to obtain desirable regeneration
- Stand Boundaries
- Ecological Reference Areas
- Non-Dedicated Natural Areas and National Natural Landmarks
- Deer Winter Range
- Great Lakes Islands



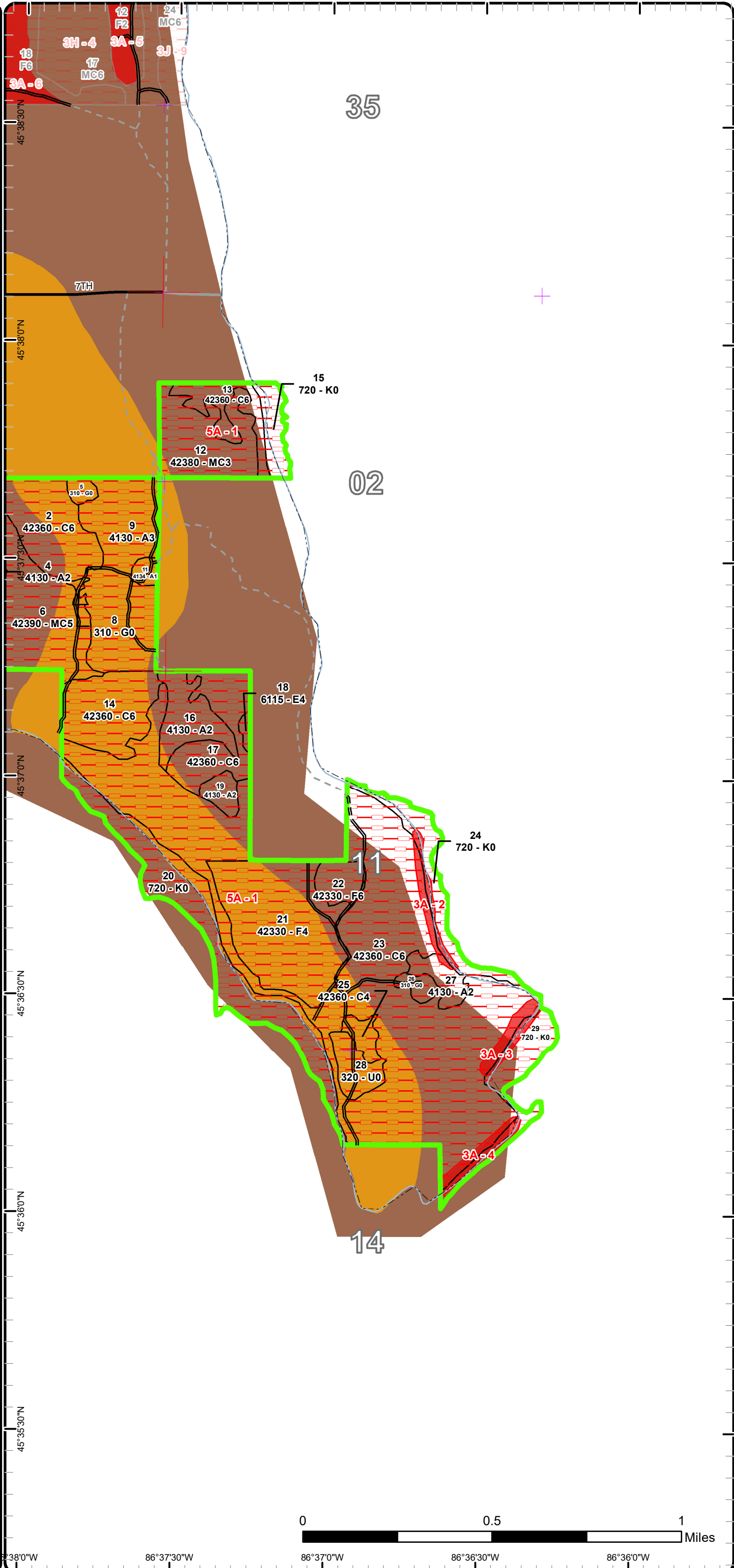


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- ▭ Compartment Boundary
- ▭ Unavailable
- 3A: Conservation Values incompatible with harvest at this time
- 5A: Not able to obtain desirable regeneration
- ▭ Stand Boundaries
- Ecological Reference Areas
- Non-Dedicated Natural Areas and National Natural Landmarks
- Deer Winter Range





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	0	34	67	0	0	0	0	0	0	0	0	0	0	0	0	0	101
Cedar	0	0	0	0	0	0	0	0	10	77	0	73	13	25	266	0	0	0	463
Exposed Rock	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107
Herbaceous Openland	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Deciduous	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Upland Conifers	0	0	0	0	0	31	0	0	0	53	0	0	0	0	0	0	0	0	84
Upland Shrub	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Upland Spruce/Fir	0	0	0	0	69	8	0	0	0	0	0	0	0	0	0	0	0	0	76
<b>Total</b>	<b>125</b>	<b>0</b>	<b>0</b>	<b>34</b>	<b>136</b>	<b>39</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>130</b>	<b>0</b>	<b>73</b>	<b>13</b>	<b>25</b>	<b>266</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>851</b>



## Report 2 – Treatment Summary

**Shingleton Mgt. Unit**  
**Year of Entry: 2025**

**Acres of Harvest**

**Compartment 100**  
**Total Compartment Acres: 850**

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

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
<b>Current</b>	0	0	0	0	0	107	0	0	0	<b>107</b>
<b>Next Step</b>	0	0	0	0	0	0	107	0	0	<b>107</b>
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>107</b>	<b>107</b>	<b>0</b>	<b>0</b>	<b>214</b>



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

**Proposed Treatments:**

20	41100020-Spray	107.2	720 - Exposed Rock	Nonstocked			Pesticide	Other - Specify	720 - Exposed Rock		No
<p><u>Prescription</u> Phragmites treatment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Herbicide Use</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Cannot Regenerate</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											

**Total Treatment Acreage Proposed: 107.2**

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Adam Petrelius : Examiner

Compartment: 100  
Year of Entry: 2025

### Availability for Management

Total Acres	Acres Available		Acres Not Available		Dominant Site Conditions	
	Acres	<i>With Condition</i>			3A	5A
101	0	0	101	Aspen	0	100
463	0	0	463	Cedar	11	452
107	0	0	107	Exposed Rock	8	99
8	0	0	8	Herbaceous Openland		8
2	0	0	2	Lowland Deciduous		2
84	0	0	84	Upland Conifers		84
10	0	0	10	Upland Shrub		10
77	0	0	77	Upland Spruce/Fir		77
850	0		850	Total Forested Acres	19	831
	0%		100%	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	<b>5A: Not able to obtain desirable regeneration</b>	831	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified
<b>Comments:</b> Heavy deer concentrations during winter months. Contains Point Detour non-dedicated natural area.							
2	Unavailable	<b>3A: Conservation Values incompatible with harvest at this time</b>	7	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified
<b>Comments:</b> Limestone bedrock lakeshore ERA Heavy deer concentrations during winter months.							

**Report 4 – Site Conditions**

**Shingleton Mgt. Unit**  
**Adam Petrelius : Examiner**

**Compartment: 100**  
**Year of Entry: 2025**

3	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	6	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified
<p><b>Comments:</b>                  Limestone bedrock lakeshore ERA                  Heavy deer concentrations during winter months.</p>							
4	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	6	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                  Limestone Bedrock lakeshore ERA                  Heavy deer concentrations during winter months.</p>							

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

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**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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
1	6120 - Lowland Cedar	Poletimber Well	9.7	70	111-140	N/A																																										
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Northern White Cedar</td> <td>70</td> <td>Pole</td> <td>8</td> <td>70</td> </tr> <tr> <td>Black Ash</td> <td>30</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Northern White Cedar	70	Pole	8	70	Black Ash	30	Pole/Sapling	5		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Ash</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	5 - 10 feet	Sapling	Black Ash	Medium	10 - 20 feet	Sapling																		
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2	42360 - Upland Cedar	Poletimber Well	68.0	100	111-140	N/A																																										
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5	310 - Herbaceous Openland	Nonstocked	2.8		Unspecified	No																																										
6	42390 - Mixed Non-Pine Upland Conifers	Poletimber Medium	52.7	80	51-80	N/A	hard to distinguish between canopy and subcanopy. Most of the mature fir are dying and being replaced with more fir.																																									
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7	42330 - Upland Fir	Poletimber Well	6.5	32	1-50	N/A																																										
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8	310 - Herbaceous Openland	Nonstocked	1.2		Unspecified	No																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
9	4130 - Aspen	Sapling Well	55.8	33	1-50	N/A				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>		<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		95	Pole/Sapling		5	33	Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Fir		5	Sapling		3					
10	720 - Exposed Rock	Nonstocked	7.3			No				
11	4134 - Aspen, Spruce/Fir	Sapling Poor	2.9	33	1-50	N/A	When harvested, this area had mostly cedar and is now mostly stumps and grass.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>		<b>DBH</b>	<b>Age</b>				
Balsam Fir		20	Sapling/Pole		4					
Black Cherry		10	Sapling/Pole		4					
Quaking Aspen		70	Sapling/Pole		4	33				
12	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sapling Well	31.0	41	51-80	N/A	Stand is aspen and fir regen with grass pockets filled with cedar stumps. Zero cedar regeneration.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>		<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		40	Pole/Sapling		5		Balsam Fir	High	5 - 10 feet	Sapling
Northern White Cedar		10	Pole		8					
Balsam Fir		50	Pole/Sapling		5	41				
13	42360 - Upland Cedar	Poletimber Well	13.0	112	111-140	N/A				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>		<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Balsam Fir		10	Pole		5		Balsam Fir	Medium	5 - 10 feet	Sapling
Northern White Cedar		90	Pole		7	112	Northern White Cedar	High	10 - 20 feet	Sapling
14	42360 - Upland Cedar	Poletimber Well	29.7	130	111-140	N/A				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>		<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Paper Birch		15	Pole/Log		9		Balsam Fir	Medium	5 - 10 feet	Sapling
Northern White Cedar		65	Pole		8	130				
Red Maple		10	Log		14					
Balsam Fir		10	Pole		8					
15	720 - Exposed Rock	Nonstocked	9.3			No				
16	4130 - Aspen	Sapling Medium	17.0	22	1-50	N/A	stand cut in winter 2000			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>		<b>DBH</b>	<b>Age</b>				
Northern White Cedar		10	Pole		9					
Bigtooth Aspen		90	Sapling/Pole		4	22				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
17	42360 - Upland Cedar	Poletimber Well	24.5	120	81-110	N/A	All other species were cut out of this stand.																																	
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18	6115 - Lowland Ash	Poletimber Poor	1.5	70	1-50	N/A	alot of trees are dying due to water stress.																																	
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19	4130 - Aspen	Sapling Medium	5.2	22	1-50	N/A	stand was cut through in 2000, and all cedar was left.																																	
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20	720 - Exposed Rock	Nonstocked	52.4			No																																		
21	42330 - Upland Fir	Poletimber Poor	61.7	39	1-50	N/A	Stand was cut in 1983 and at the time it was a very nice cedar/fir stand. deer destroyed all regen. Areas that previously had cedar are now grass and stumps.																																	
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24	720 - Exposed Rock	Nonstocked	18.5			No																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>25</b>	42360 - Upland Cedar	Poletimber Poor	4.8	100	Unspecified	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Balsam Fir		30	Pole	5		Quaking Aspen	Medium	10 - 20 feet	Sapling
Northern White Cedar		70	Pole	8	100	Balsam Fir	Medium	5 - 10 feet	Sapling
<b>26</b>	310 - Herbaceous Openland	Nonstocked	3.7		Unspecified	No	Stand is a grass field with cedar stumps. Zero cedar regeneration, and no regeneration of other species either.		
<b>27</b>	4130 - Aspen	Sapling Medium	7.8	32	1-50	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Balsam Fir		10	Sapling	3		Balsam Fir	Low	5 - 10 feet	Sapling
Quaking Aspen		90	Pole/Sapling	5	32				
<b>28</b>	320 - Upland Shrub	Nonstocked	9.6		Unspecified	No			
<b>29</b>	720 - Exposed Rock	Nonstocked	19.7			No			