



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41098

Entry Year 2019

Acreage: 1,832

County Delta

Management Area: Lake Michigan Shoreline

Revision Date: 2017-08-10

Stand Examiner: Tori Irving

Legal Description:

T38N R18W Sections 7 & 18

T38N R19W Sections 1, 11, 12 & 13-15

Identified Planning Goals:

The goals in this compartment include conducting multiple resource management for current and future generations. Forest Health, Recreation, Biodiversity Stewardship, Wildlife and Timber Management are some of the key management components within this compartment.

Soil and topography:

The soils in this compartment are generally poorly drained due to their proximity to bedrock. The terrain in the area is relatively flat with the exception of the areas close to the lake which take on a dune and swale effect from glaciation and receding lake levels. The Eastern Upper Peninsula Eco-Regional Planning Process is using a Management Area Concept to manage on a broader scale and Land Type Associations (LTA's) are key components to defining the soils and topography within the Management Areas. This majority of this compartment lies within the Garden Wetlands/Outcrop LTA. In addition, there is a small amount of the compartment that lies within the Garden Outcrop LTA.

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

The compartment is fairly contiguous State land with some private fragmentation. The edges of the compartment and most of the Garden Peninsula are fairly fragmented. There is little development within the compartment except the Portage Bay State Forest Campground is to the east of the compartment which increases the amount of use in the area.

Unique Natural Features:

Currently under review by Michigan Natural Features Inventory (MNFI).

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

This compartment borders the western shore of Big Bay De Noc (Lake Michigan). For all riparian areas, Best Management Practices should be followed.

Wildlife Habitat Considerations:

This compartment lies south and west of the village of Garden along the eastern coast of the Garden Peninsula. Pre-settlement data show the uplands contained a mixture of birch, sugar maple, hemlock, beech, white pine, and some basswood. Lowland areas consisted primarily of cedar swamps with a scattering of balsam fir, ash, and spruce. The current forest condition shows the swamp conifers continue to contain similar species to those found circa 1850. However, the uplands have shifted to predominantly early successional systems. As with compartment 96, this area serves both as a deer yard complex as well as a stop over location for neo-tropical migrants crossing Lake Michigan. Therefore, the wildlife habitat objectives include providing closed canopy coniferous forest near the lakeshore and early successional deciduous forest inland.

Mineral Resource and Development Concerns and/or Restrictions

Small gravel pits are located in Section 15, and there may be some additional sand and gravel potential within the compartment. There may also be some limestone/dolostone potential. There is no known metallic mineral potential in this region, and there is no commercial oil and gas production in the UP.

Vehicle Access:

The compartment has poor access to the majority of the interior of the compartment due to lack of roads or gates on private land. However, due to the sensitive areas within the compartment this bodes well for the management of those sensitive areas.

Survey Needs:

Recreational Facilities and Opportunities:

There are no recreational facilities within the compartment. However, the area gets a lot of recreational users including hunters, birdwatchers, berry pickers and ORV users.

Fire Protection:

This area is nearly an hour away from the Thompson Station so response times to a wildfire will be lengthy, however, there is a small pumper located at Fayette State Park with 2 qualified firefighters which will help in getting personnel to a fire more quickly. The area has very rocky terrain and also contains some very sensitive areas. The Wooded Dune and Swale ERA plan should contain guidance on fire protection when the plan is completed. However, due to the moist micro-climate that is created by Lake Michigan fire threats are relatively low.

Additional Compartment Information:

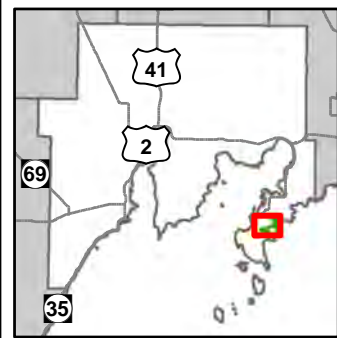
The following reports from the Inventory are attached:

- 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:

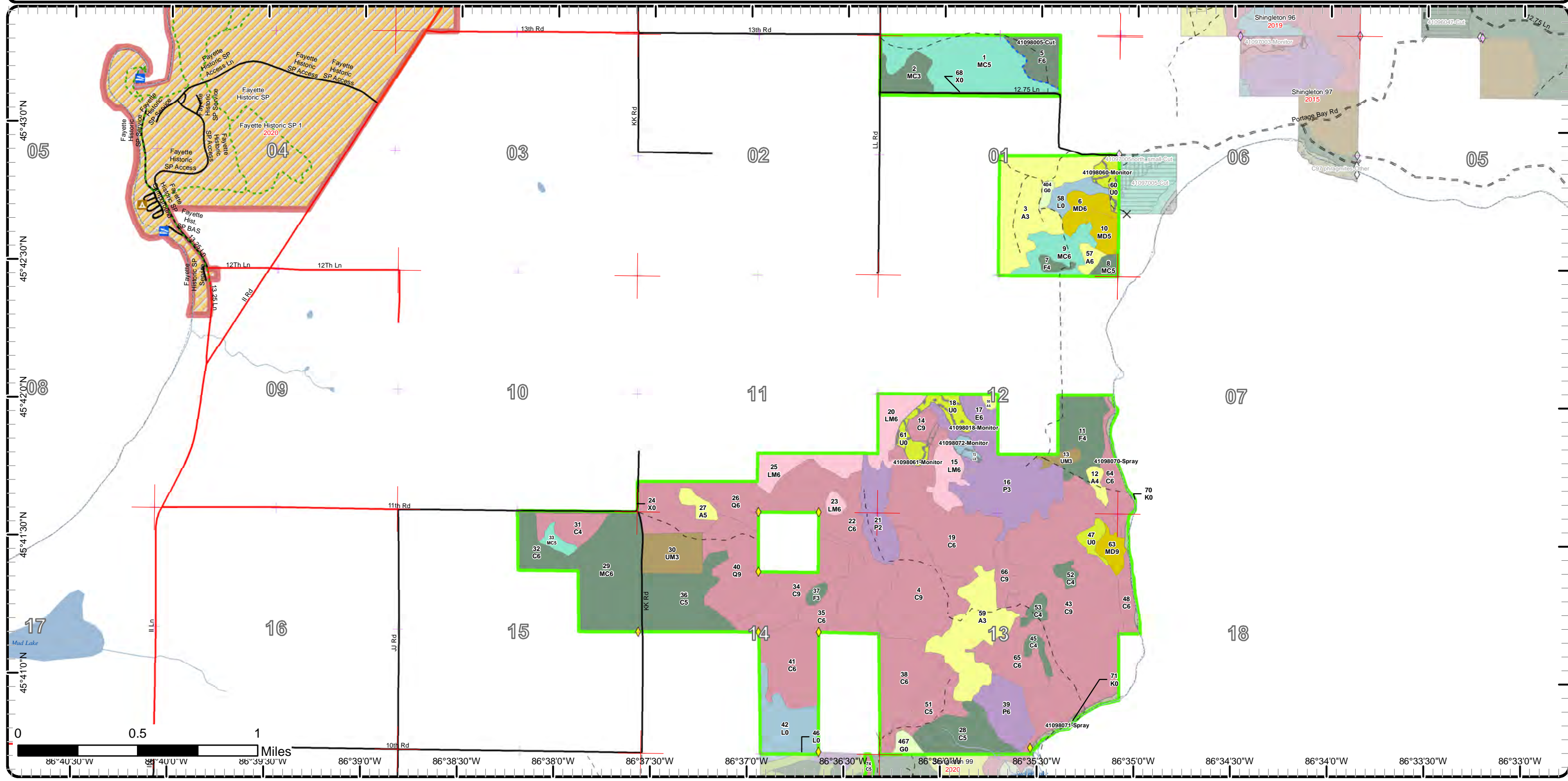
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

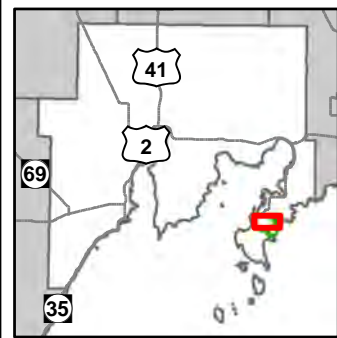


Compartment: 98
 T38N, R19W, Sec: 1, 11, 12, 13-15
 T38N, R18W, Sec: 7, 18
 County: Delta
 Unit: Shingleton
 Mgmt Area: Lake Michigan Shoreline
 YOE: 2019
 Acres: 1832.2 GIS Calculated
 Examiner: Tori Irving
 Map Revised: 8/23/2017
 Map Phase: Review

- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- Counties
- ✕ Gate
- - - Designated Hiking Trails
- - - Designated Ski Trails
- Highway
- County Paved Roads
- Paved Roads
- Gravel Roads
- - - Poor Dirt Roads
- Streams
- Lakes and Rivers All
- State Boundary
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Pesticide
- Regeneration Survey
- 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
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 720 - Exposed Rock
- Lakes

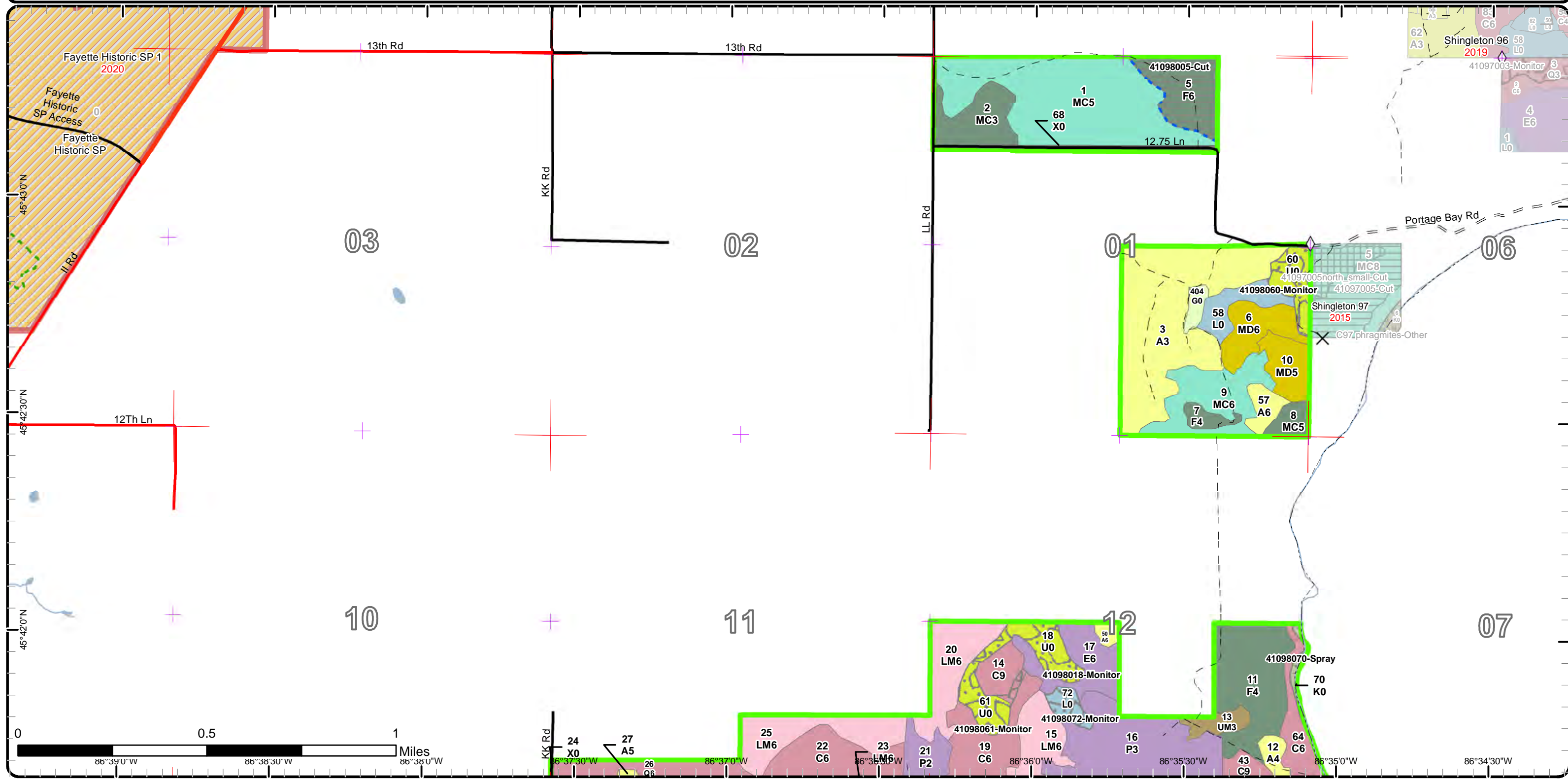


Cover Type & Treatments Map

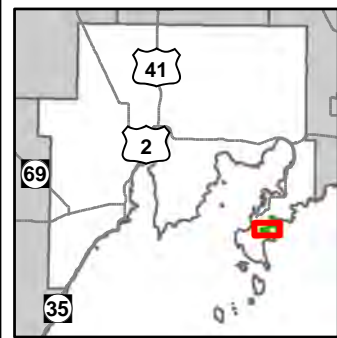


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- | | | |
|--------------------------------|-----------------------------------|-----------------------------|
| — Miris Corners | — State Boundary | ■ 310 - Herbaceous Openland |
| ✚ Remonumented Section Corners | ▭ Compartment Boundary | ■ 330 - Low Density Trees |
| ◇ Field Grade GPS Corners | ▨ Treatments with Site Conditions | ■ 622 - Lowland Shrub |
| ▭ Counties | ▭ Clearcut (w/Reserves) | ■ 720 - Exposed Rock |
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| — Designated Hiking Trails | ▭ Regeneration Survey | |
| — Designated Ski Trails | ■ 413 - Aspen | |
| — Highway | ■ 419 - Mixed Upland Deciduous | |
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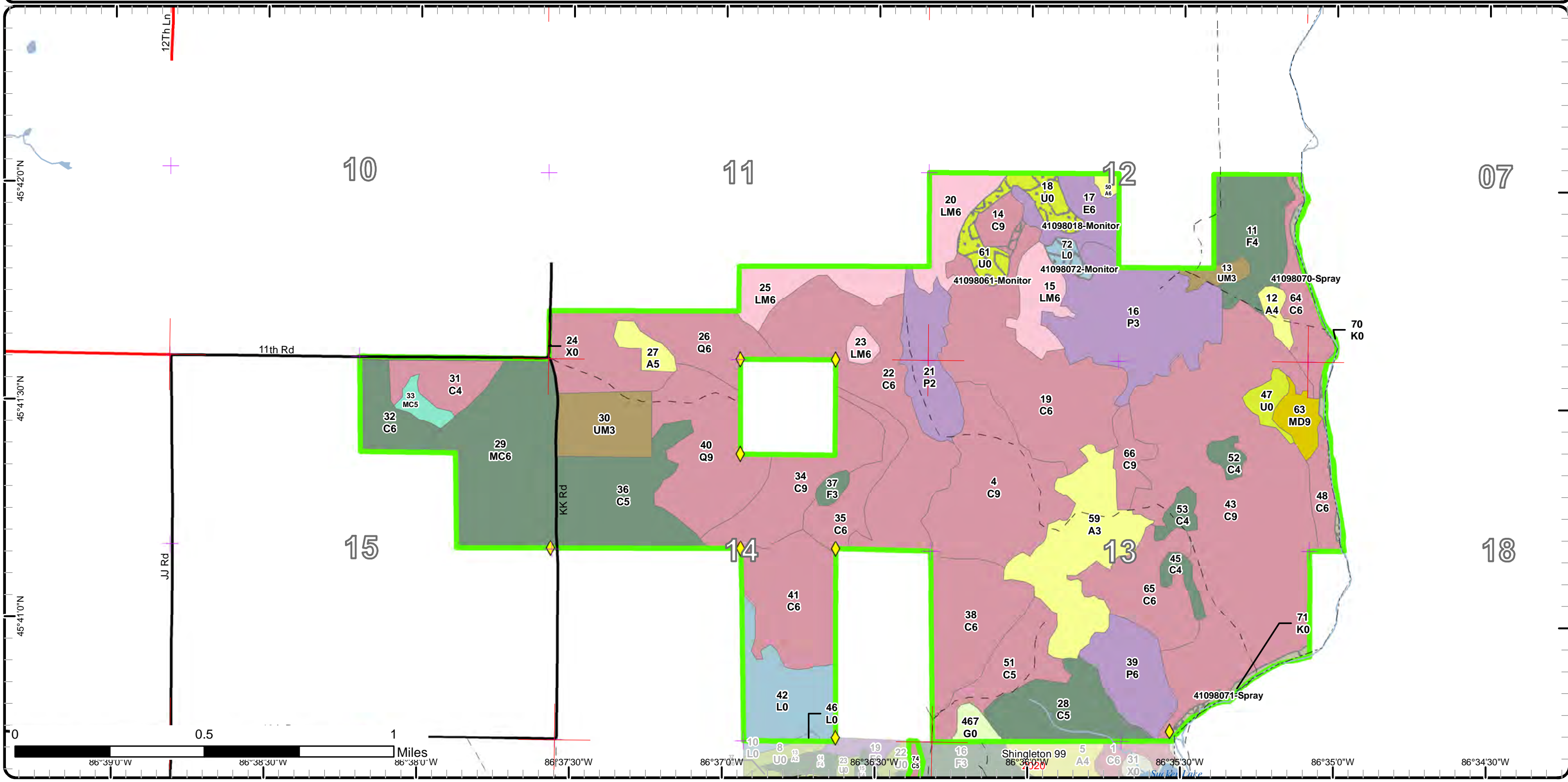


Cover Type & Treatments Map



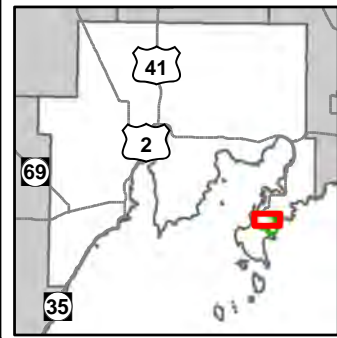
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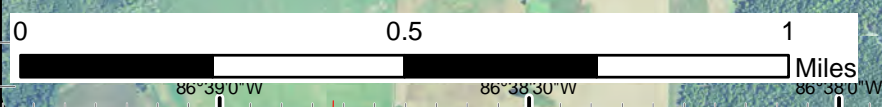
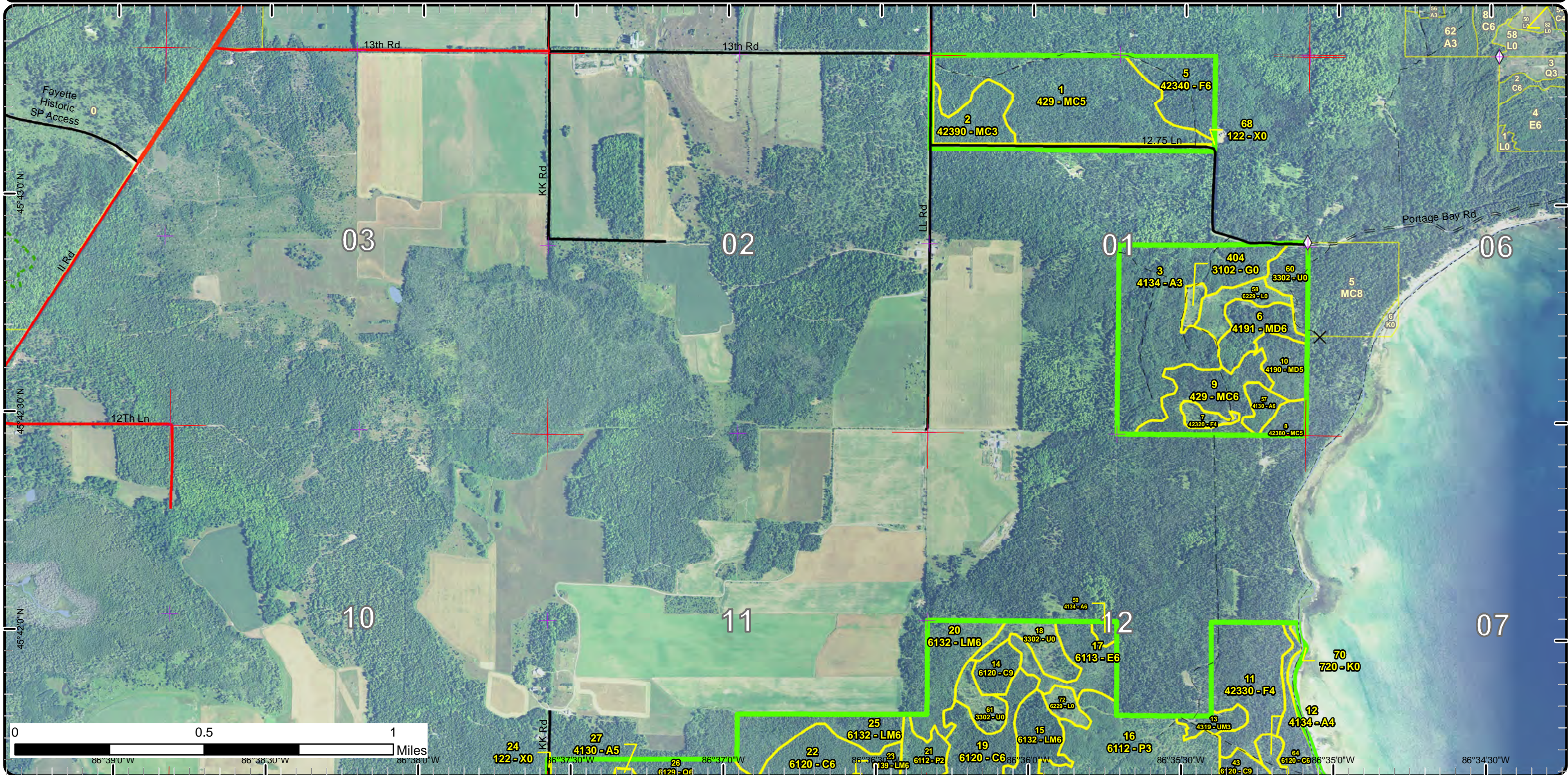


Stand Boundary Map

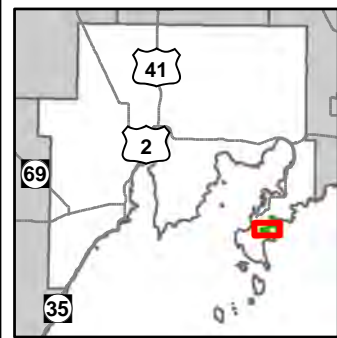
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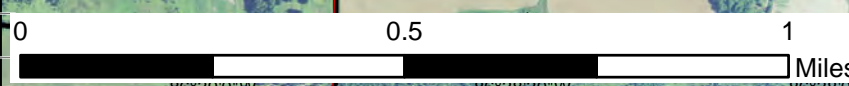
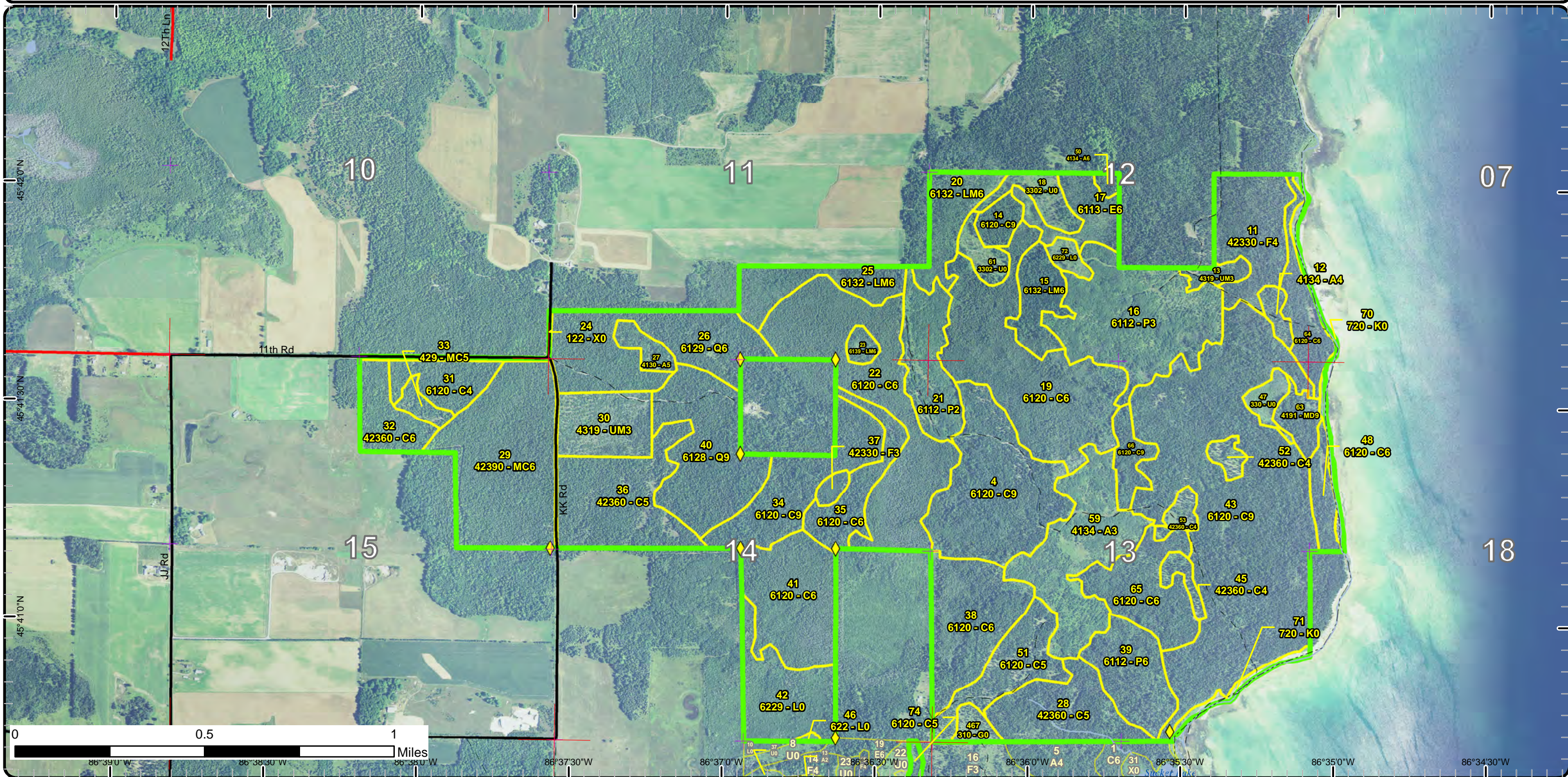


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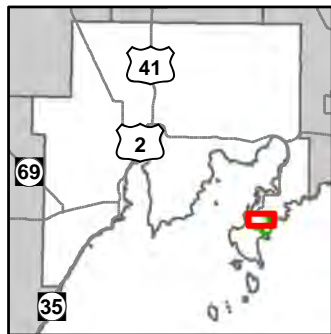
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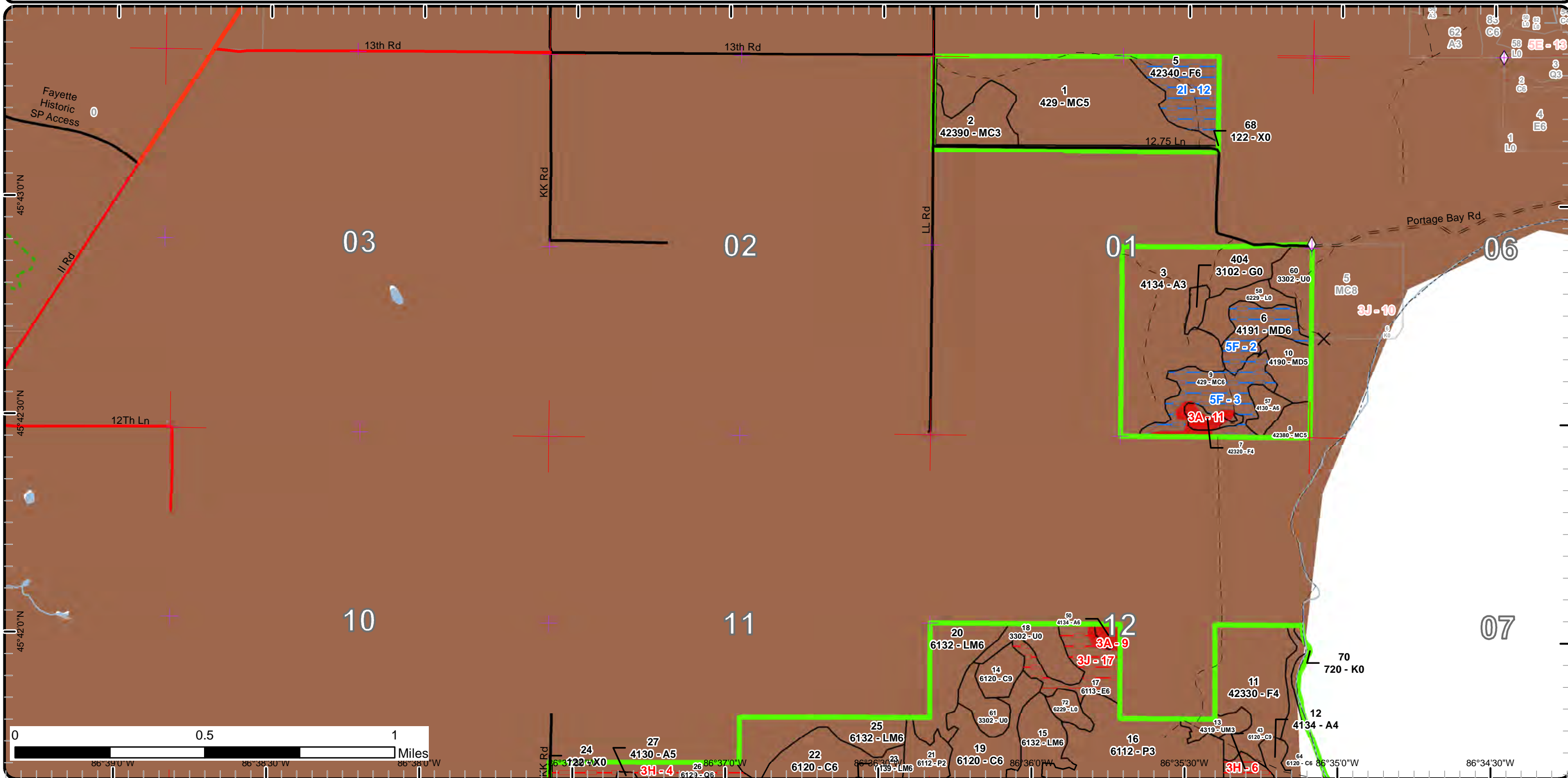
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 45°42'0"N 45°41'30"N 45°41'0"N

Special Conservation Areas & Site Conditions Map

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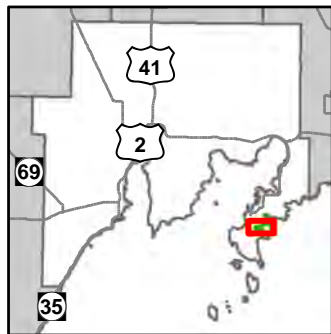


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- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Ecological Reference Areas
- Deer Winter Range

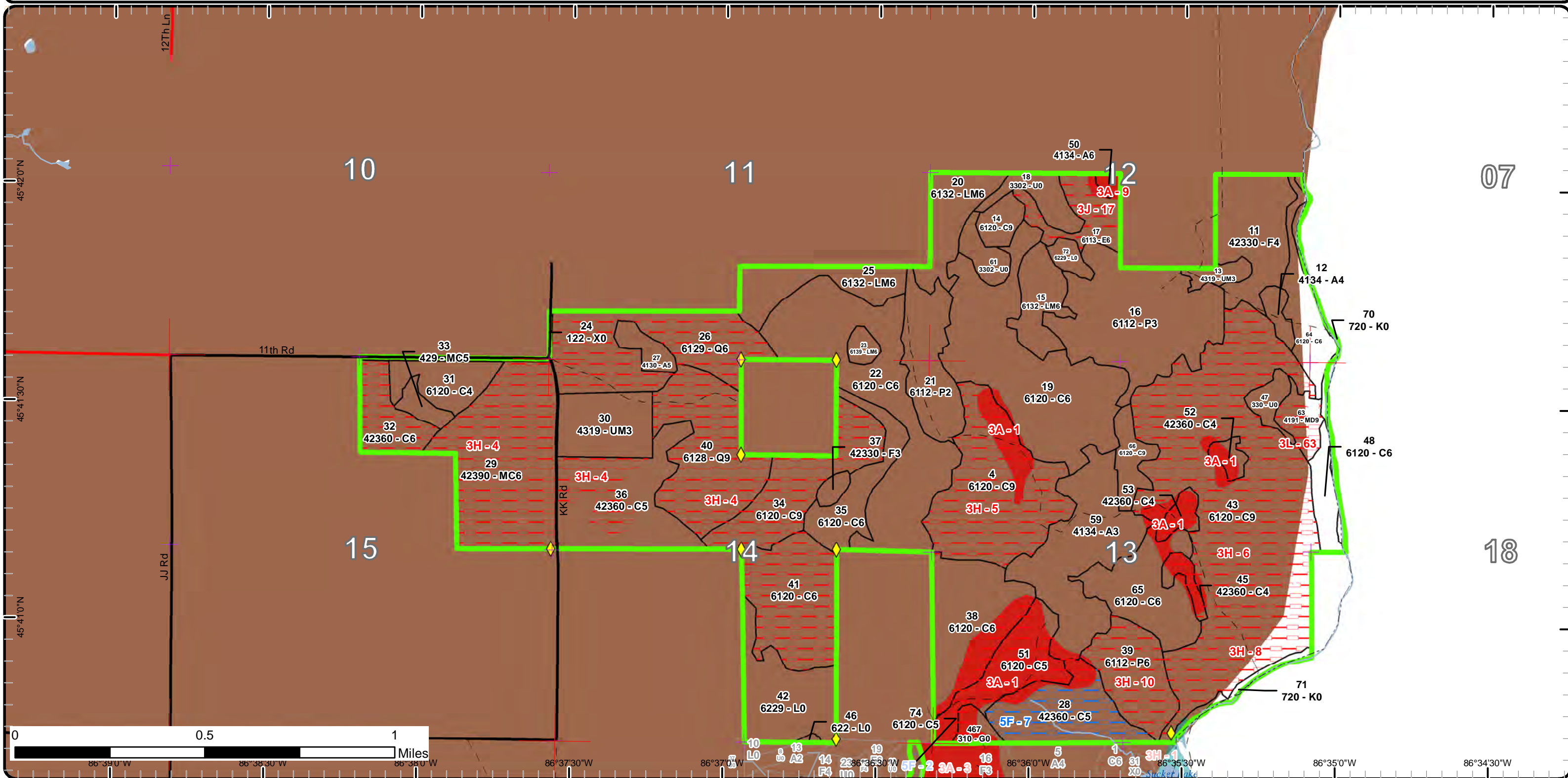


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- State Boundary
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- Stand Boundaries
- Ecological Reference Areas
- Coastal Environmental Areas
- Deer Winter Range



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	57	71	7	13	0	0	0	0	0	0	0	0	0	0	0	0	148
Cedar	0	0	0	0	0	0	18	16	60	85	203	141	269	8	0	0	0	88	888
Exposed Rock	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Herbaceous Openland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Low-Density Trees	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Lowland Aspen/Balsam Poplar	0	0	102	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	132
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	56	59	0	0	0	0	0	0	114
Lowland Deciduous	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	18
Lowland Mixed Forest	0	0	0	0	0	0	0	19	50	0	0	0	0	0	0	0	0	0	69
Lowland Shrub	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
Mixed Upland Deciduous	0	0	0	0	12	14	0	10	0	0	0	0	0	0	0	0	0	0	36
Upland Conifers	0	0	0	17	5	99	6	0	0	0	0	0	0	0	0	0	0	79	205
Upland Mixed Forest	0	0	0	27	0	6	0	0	0	0	0	0	0	0	0	0	0	0	33
Upland Spruce/Fir	0	0	0	0	44	0	21	0	0	0	0	0	0	0	0	0	0	0	64
Urban	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Total	124	0	159	98	24	80	131	43	119	135	277	200	269	8	0	0	0	167	1831



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2019

Acres of Harvest

Compartment 98
Total Compartment Acres: 1,832

Commercial Harvest -
Harvests with Site Condition - 21
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
Upland Spruce/Fir	21	0	0	0	0	0	0	0	0	21
Total	21	0	0	0	0	0	0	0	0	21

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	21	0	0	0	0	12	36	0	0	69
Next Step	0	0	0	0	0	0	33	0	0	33
Total	21	0	0	0	0	12	69	0	0	102



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
5	41098005-Cut	21.2	42340 - Upland Spruce/Fir	Poletimber Well	60	81-110	Harvest	Clearcut with Retention	42330 - Upland Fir	Even-Aged	Proposal
Habitat Cut: No		Site Condition: Survey Needed									
<u>Prescription</u> Cut all species. Leave a few scattered retention pockets in the stand. Cut stand in the winter.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> A mix of species currently found on-site.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/13/2017											
18	41098018- Monitor	11.8	3302 - Low Density Conifer Trees	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	6112 - Lowland Aspen	Even-Aged	Draft Field Boundary
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Count regeneration and monitor for success.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> A mix of species currently found on-site.											
<u>Regen:</u>											
<u>Other</u> Stand was cut as part of the Banana Belt Sale. TCR date 6/27/2014.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
60	41098060- Monitor	10.2	3302 - Low Density Conifer Trees	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	42340 - Upland Spruce/Fir	Uneven- Aged	Draft Field Boundary
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Count regeneration and monitor for success.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> A mix of species currently found on-site.											
<u>Regen:</u>											
<u>Other</u> Stand was cut as part of Banana Belt Sale. The TCR date was 6/27/2014.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
61	41098061- Monitor	9.6	3302 - Low Density Conifer Trees	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	414 - Other Upland Deciduous	Even-Aged	Draft Field Boundary
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Count regeneration and monitor for success.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> A mix of species currently found on-site.											
<u>Regen:</u>											
<u>Other</u> Stand was cut as part of the Banana Belt sale. TCR date 6/27/2014.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
70	41098070- Spray	6.7	720 - Exposed Rock	Nonstocked		Unspec ified	Pesticide	Other - Specify	720 - Exposed Rock		Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Remove phragmites according to common accepted practices											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Invasive Species											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
71	41098071- Spray	5.1	720 - Exposed Rock	Nonstocked		Unspec ified	Pesticide	Other - Specify	720 - Exposed Rock		Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Remove phragmites according to common accepted practices.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Invasive Species											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
72	41098072- Monitor	4.8	6229 - Mixed lowland shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	6112 - Lowland Aspen	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Count regeneration and monitor for success.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> A mix of species currently found on-site.											
<u>Regen:</u>											
<u>Other</u> Stand was cut as part of Banana Belt sale. TCR date 6/27/2014.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
Total Treatment Acreage Proposed:		69.4									

Report 4 – Site Conditions

Shingleton Mgt. Unit

Tori Irving : Examiner

Compartment: 98

Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
1,832	985	125	722
	54%	7%	39%

Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Condition	Dominant Site Conditions					
						2I	5F	3A	3H	3J	3L
149	145	0	4		Aspen			4	0		
888	364	68	456		Cedar		68	73	383		
12	12	0	0		Exposed Rock						
9	5	0	4		Herbaceous Openland			4			
37	37	0	0		Low-Density Trees						
132	102	0	30		Lowland Aspen/Balsam Poplar			0	30		
114	0	0	114		Lowland Conifers				114		
18	1	0	17		Lowland Deciduous			1		16	
69	69	0	0		Lowland Mixed Forest						
51	51	0	0		Lowland Shrub						
36	12	14	10		Mixed Upland Deciduous		14				10
206	102	22	83		Upland Conifers		22	3	79		
33	33	0	0		Upland Mixed Forest				0		
65	41	21	3		Upland Spruce/Fir	21		3			
14	13	0	1		Urban				1		
1,832	985	125	722		Total Forested Acres	21	104	89	607	16	10
	54%	7%	39%		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	3A: Conservation Values incompatible with harvest at this time	79	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5F: Evaluated for Forest Health Considerations	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: deeryard, MNFI issues. Best to be dealt with at review							

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3	Available	5F: Evaluated for Forest Health Considerations	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments: portion is ERA, deeryard, and MNFI issues							
4	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	321	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	61	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	158	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5F: Evaluated for Forest Health Considerations	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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9	Unavailable	3A: Conservation Values incompatible with harvest at this time	4	3K: Rare or unique landforms	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3A: Conservation Values incompatible with harvest at this time	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	2I: Survey needed	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	3K: Rare or unique landforms	Unspecified	Unspecified	Unspecified
Comments:							
63	Unavailable	3L: Other wildlife concerns	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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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	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.
HCVA	Coastal Environmental Areas	The public designation process is defined by Part 323, Shorelands Protection and Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the Michigan Department of Environmental Quality (DEQ). This is an inactive program with no new areas currently under consideration by the DEQ.
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	Shingleton Mgt. Unit		Report 7 – Forested Stands			Compartment: 98 Year of Entry: 2019	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
1	429 - Mixed Upland Conifers	Poletimber Medium	74.0	51	51-80		
2	42390 - Mixed Non- Pine Upland Conifers	Sapling Well	16.5	35	1-50		
3	4134 - Aspen, Spruce/Fir	Sapling Well	71.3	25	Immature	In 1992 it was completely clearcut, Portage Barrow Sale.	
4	6120 - Lowland Cedar	Sawtimber Well	69.9	92	111-140		
5	42340 - Upland Spruce/Fir	Poletimber Well	21.2	60	81-110	Stand was partially cut through in 1982.	
6	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	14.4	59	51-80		
7	42320 - Upland Spruce	Poletimber Poor	3.9	42	1-50		
8	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Medium	5.4	42	1-50		
9	429 - Mixed Upland Conifers	Poletimber Well	25.0	59	1-50		
10	4190 - Mixed Upland Deciduous with Cedar	Poletimber Medium	11.5	42	1-50		
11	42330 - Upland Fir	Poletimber Poor	36.6	42	1-50		
12	4134 - Aspen, Spruce/Fir	Poletimber Poor	5.2	42	1-50	Stand was cut around 1970.	
13	4319 - Mixed Upland Forest	Sapling Well	5.7	42	51-80		
14	6120 - Lowland Cedar	Sawtimber Well	7.9	127	81-110		
15	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	18.8	70	81-110		
16	6112 - Lowland Aspen	Sapling Well	71.1	16	Immature	(4-22-02 BB) When the stand was set up in 1999 (Bloody Banana) Wildlife Division agreed and signed off to allow the cedar to be cut.(7-8-03 BB) Sale is all cut and now closed.	
17	6113 - Lowland Maple	Poletimber Well	18.3	92	81-110		
19	6120 - Lowland Cedar	Poletimber Well	87.6	175	141-170		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	21.7	82	51-80	
21	6112 - Lowland Aspen	Sapling Medium	30.7	14	Immature	(7-8-03 BB) Stand was cut in the summer of 2002 and winter 2003, all cedar and hemlock was left as well as some birch seed trees. [4-30-07 BB] Stand was cut as a birch seed tree.
22	6120 - Lowland Cedar	Poletimber Well	84.4	102	171-200	
23	6139 - Mixed Lowland Forest	Poletimber Well	4.1	85	51-80	There is a small pond in the stand.
25	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	24.1	85	51-80	
26	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	58.5	100	111-140	
27	4130 - Aspen	Poletimber Medium	7.3	30	Immature	
28	42360 - Upland Cedar	Poletimber Medium	36.4	90	51-80	
29	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	79.3	110	51-80	
30	4319 - Mixed Upland Forest	Sapling Well	27.1	23	Immature	Soil is listed as limestone rock so fertility is low.
31	6120 - Lowland Cedar	Poletimber Poor	18.0	52	1-50	
32	42360 - Upland Cedar	Poletimber Well	19.2	72	111-140	
33	429 - Mixed Upland Conifers	Poletimber Medium	5.6	67	1-50	Stand is an old dump site which is still somewhat active. Everything from old cars to stumps. Much of the stuff is buried.
34	6120 - Lowland Cedar	Sawtimber Well	40.9	78	81-110	Some blow down in the northern end of the stand.
35	6120 - Lowland Cedar	Poletimber Well	22.1	110	171-200	
36	42360 - Upland Cedar	Poletimber Medium	52.0	90	51-80	
37	42330 - Upland Fir	Sapling Well	3.4	42	Unspecified	The stand is very thick with fir but is growing on limestone so the growth rate is very slow.



Stand	Shingleton Mgt. Unit		Report 7 – Forested Stands			Compartment: 98 Year of Entry: 2019	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
38	6120 - Lowland Cedar	Poletimber Well	45.0	92	141-170		
39	6112 - Lowland Aspen	Poletimber Well	30.1	77	81-110		
40	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	55.9	97	141-170		
41	6120 - Lowland Cedar	Poletimber Well	46.8	116	141-170		
43	6120 - Lowland Cedar	Sawtimber Well	200.3	110	111-140		
45	42360 - Upland Cedar	Poletimber Poor	5.3	67	1-50		
48	6120 - Lowland Cedar	Poletimber Well	10.8	108	81-110		
50	4134 - Aspen, Spruce/Fir	Poletimber Well	2.2	47	1-50		
51	6120 - Lowland Cedar	Poletimber Medium	28.2	83	51-80		
52	42360 - Upland Cedar	Poletimber Poor	4.7	67	1-50		
53	42360 - Upland Cedar	Poletimber Poor	5.5	67	1-50		
57	4130 - Aspen	Poletimber Well	5.6	42	81-110	OPIC - FMD	
59	4134 - Aspen, Spruce/Fir	Sapling Well	57.3	14	Immature	When the stand was set up in 1999 (Bloody Banana) Wildlife Divisin agreed and signed off to allow the cedar to be cut.(7-8- 03 BB) Sale is all cut and now closed.[4-12-07 BB]	
63	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	9.7	78	81-110		
64	6120 - Lowland Cedar	Poletimber Well	19.3	86	111-140	OPIC - FMD: HCVA - Environmental Area SCA - POG SCA - POG Stand was nominated in 1997 for potential old growth because of it being a corridor for wildlife and protection of endangered species.	
65	6120 - Lowland Cedar	Poletimber Well	34.8	102	81-110		

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Shingleton Mgt. Unit

Report 7 – Forested Stands

Compartment: 98
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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
66	6120 - Lowland Cedar	Sawtimber Well	11.2	102	Unspecified	OPIIC - FMD: SCA - Deeryard Stand has an overstory of aspen with a fully stocked cedar stand beneath.
74	6120 - Lowland Cedar	Poletimber Medium	37.4	83	81-110	OPIIC - FMD: ERA - Alkaline Scrub Grassland (Alvar) SCA - Deeryard Stand has a fair amount of cedar and spruce. The cedar looks like it has been pruned. Much more than just by hunters.



Stand	Cover Type	Acres	Managed Site	General Comments:
18	3302 - Low Density Conifer Trees	11.8		[9/21/09 BB] Stand is now on proposal, 12-09 Banana Belt Sale. Unit 3, 13 acres. [8/20/14 TI] Sale #12-09 Banana Belt is closed. TCR date 6/27/2014.
24	122 - Road/Parking Lot	4.7	No	OPIC - FMD: SCA - Deeryard 11th and KK Rds
42	6229 - Mixed lowland shrub	35.4	No	OPIC - FMD: SCA - Deeryard Some scattered pockets of tamarck
46	622 - Lowland Shrub	0.7		Retention - Do not cut hemlock, oak, red pine, and white pine. Make sure unit line is on top of ridge to save the large canopy conifers located there. [4/27/10 BB] Stand is now on proposal, 11-10-01 Scared Cayote. Actual prepared acreage is 6. Residual Basal Area = White Pine 10sq ft, hemlock 12 sq ft Unit 1 [8/31/2012 TI] Sale is closed. TCR date 2/20/2012. Stand will be added to the regeneration timeclock.
47	330 - Low-Density Trees	6.8	No	OPIC - FMD: HCVA - Environmental Area SCA - Deeryard SCA - POG Stand was nominated in 1997 for potential old growth because of its proximity to Lake Michigan and potential for endangered species.
58	6229 - Mixed lowland shrub	10.2		[9/21/09 BB] Stand is now on proposal, 12-09 Banana Belt Sale. Unit 2, 11 acres. Residual basal area = 1 sq ft cedar. Additional retention obtained with red line. FTP W41-1418 submitted for hemlock underplanting. [8/20/14 TI] Sale #12-09 Banana Belt is closed. TCR date 6/27/2014.
60	3302 - Low Density Conifer Trees	10.5		[9/21/09 BB] Stand is now on proposal, 12-09 Banana Belt Sale. Unit 1, 10 acres. Residual basal area = 10 sq ft red pine, 8 sq ft white pine and 4 sq ft of white birch. FTP W41-1418 submitted for hemlock underplanting.
61	3302 - Low Density Conifer Trees	8.4		[9/21/09 BB] Stand is now on proposal, 12-09 Banana Belt Sale. Unit 4, 9 acres. Residual basal area = 8.8 sq ft cedar. [8/20/14 TI] Sale #12-09 Banana Belt is closed. TCR date 6/27/2014.
68	122 - Road/Parking Lot	9.0	No	OPIC - FMD: SCA - Deeryard LL Rd
70	720 - Exposed Rock	6.7	No	
71	720 - Exposed Rock	5.1	No	
72	6229 - Mixed lowland shrub	4.8		[9/21/09 BB] Stand is now on proposal, 12-09 Banana Belt Sale. Unit 5, 5 acres. [8/20/14 TI] Sale #12-09 Banana Belt is closed. TCR date 6/27/2014.



Stand	Cover Type	Acres	Managed Site	General Comments:
404	3102 - Grass	3.2	No	OPIC - FMD: SCA - Deeryard Stand is a borrow pit which was dug by the road commission. The pit is low enough to fill with water in the spring of the year.
467	310 - Herbaceous Openland	5.6	No	