



# Compartment Review Presentation

## Shingleton Forest Management Unit

Compartment 41150

Entry Year 2017

Acreage: 2,600

County Schoolcraft

Management Area: Bullock Ranch

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**Revision Date:** 2015-08-04

**Stand Examiner:** Scott Kentner

**Legal Description:**

T46N R15W Sections 1, 2, 11-13, 24 and 25

**Identified Planning Goals:**

The main goal in this compartment is to conduct multiple resource management for current and future generations.

**Soil and topography:**

The topography in this compartment is mostly flat with low wet areas. Soils are can be fair to good drainage with good to fair natural fertility. The compartment can be split in half with a diagonal line from the NW to the SE splitting it into two LTA's. The E is the Seney Channel Fens and the W is the Driggs Basin Land Type Associations.

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

Ownership in the compartment is mainly State land. The exception is in sections 1 and 2 where small private tracks are between the Driggs River Road and the Driggs River. It is mainly State land surrounding the compartment.

**Unique Natural Features:**

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

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

None known.

**Special Management Designations or Considerations:**

There are two sediment traps on the river that are maintained by Fish Division. Treatments that will be conducted around any water areas and lowland conifers will follow all BMP regulations and those concerns addressed from other divisions.

**Watershed and Fisheries Considerations:**

The Driggs River forms the western boundary of this compartment and supports a quality brook trout fishery. Discouraging beaver from damming the stream is a concern, and BMP's should be followed as inputs of sediment and increases in sand bedload need to be prevented.

**Wildlife Habitat Considerations:**

This compartment lies north of M-28 along the Seney Stretch and immediately east of the Driggs River. Wetlands dominate the northern and eastern portions of this compartment. The General Land Office surveyors recorded tamarack as the primary tree species in the pre-settlement forested portions of this compartment. Spruce, white pine, hemlock, cedar, and red maple were also recorded as important components of the forest. Tree species making up less significant portions of the forest composition included red pine, white birch, beech, yellow birch, and aspen. Although not mentioned by the surveyors, red oak must have been at least a minor component in this compartment. Today's forest composition includes all the original components but tamarack is no longer the dominant forest type. Jack pine, red pine and aspen are much more prevalent than in the pre-settlement forest. Oak also persists in isolated areas. Featured species in this compartment are beaver, gray jay, and sharp-tailed grouse. Wildlife habitat objectives include maintaining the hydrological integrity of the marsh complex, enhancing species and structural diversity within the northern hardwood and conifer forest, and promoting the production of hard mast in the form of acorns.

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

Surface sediments consist of lacustrine (lake) sand and gravel and peat and muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton and Black River Groups subcrop below the glacial drift. These rocks are quarried for stone/dolomite. Gravel pits are not located in the area and potential appears to be limited. There is no commercial oil and gas production in the UP.

**Vehicle Access:**

Access to the compartment is fair to good with the Driggs River Road running the length of the compartment. There is also a fair amount of forest roads from past timber activity that allows hunters and other recreationalists to access State land.

**Survey Needs:**

None.

**Recreational Facilities and Opportunities:**

The Driggs River offers good fishing opportunities with several spots along the river that are used for disperse camping. There is also a new canoe ramp at one of these sites.

**Fire Protection:**

Fire response to the area will be good with the Seney Station 9 miles east via M-28. The current road system is fair for fire operations. The majority of acres are a jack pine component with spruce of varying age classes. The only real urban interface problem within the compartment is the private along the river in sections 1 and 2; these seasonal homes are mainly in poor hardwoods with white pine.

**Additional Compartment Information:**

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

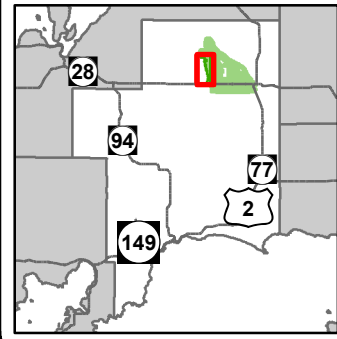
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

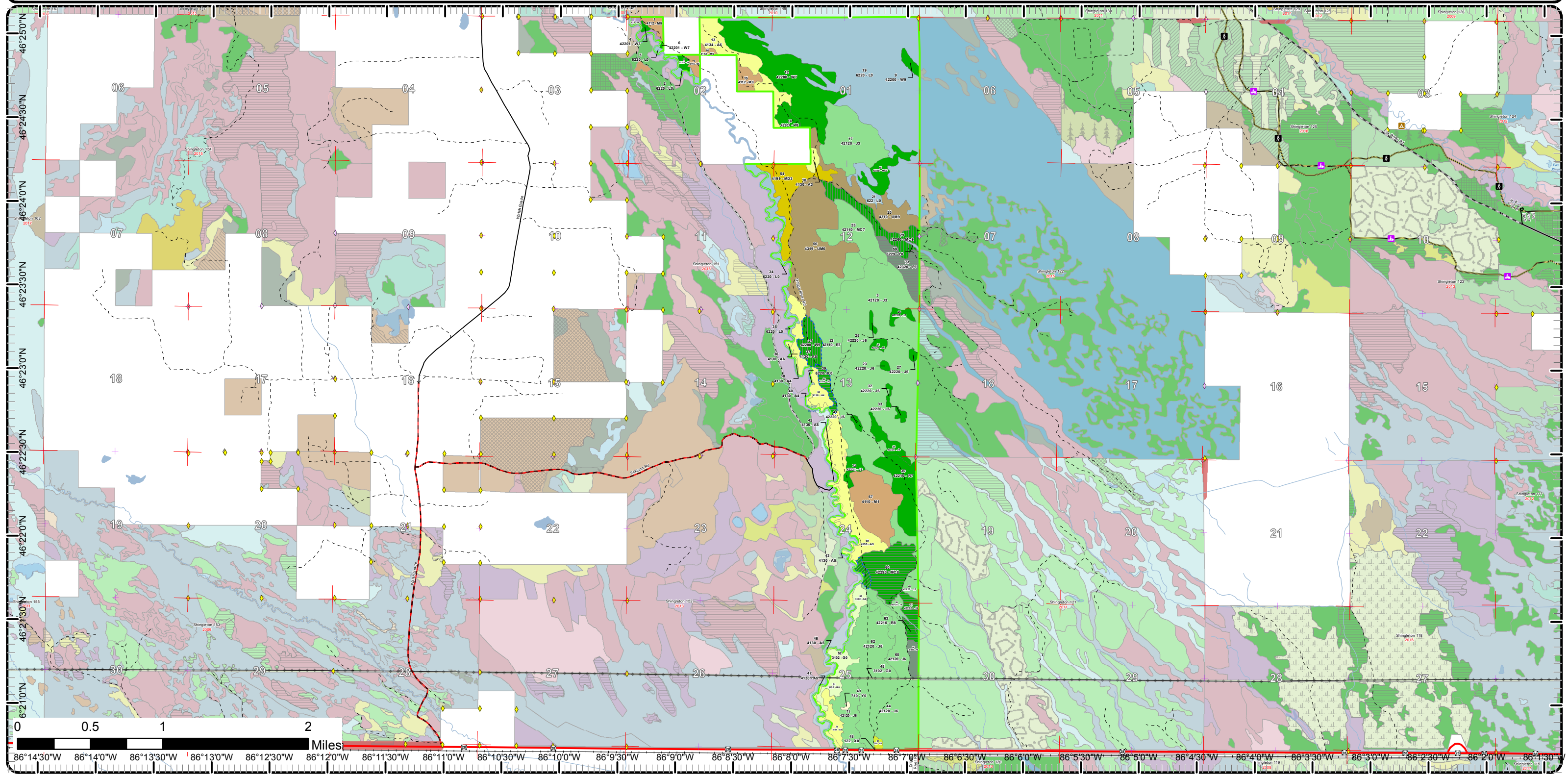
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments

Compartment: 150  
 T46N, R15W,  
 Sec: 1, 2, 11, 12, 13, 24, 25  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: Bullock Ranch  
 YOE: 2017  
 Acres: 2600 GIS Calculated  
 Examiner: Scott Kentner  
 Map Revised: 8/18/2015  
 Map Phase: Review

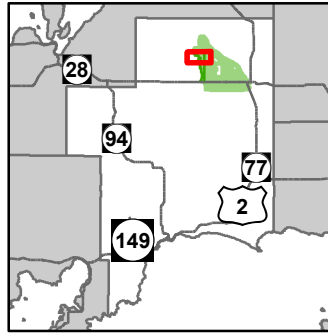


- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- Miris Corners
- Highway
- Paved Roads
- County Gravel Roads
- = Gravel Roads
- - Poor Dirt Roads
- - - Trail (Non-Recreation)
- - - Closed Roads
- ▲ Campground
- Hiking Trails
- Snowmobile Trails
- Railroads
- Rivers
- Lakes
- Powerline
- - - Treatments with Site Conditions
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 710 - Sand/Soil
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Fores
- 611 - Lowland Deciduous Forest
- 122 - Roads/Parking Lot

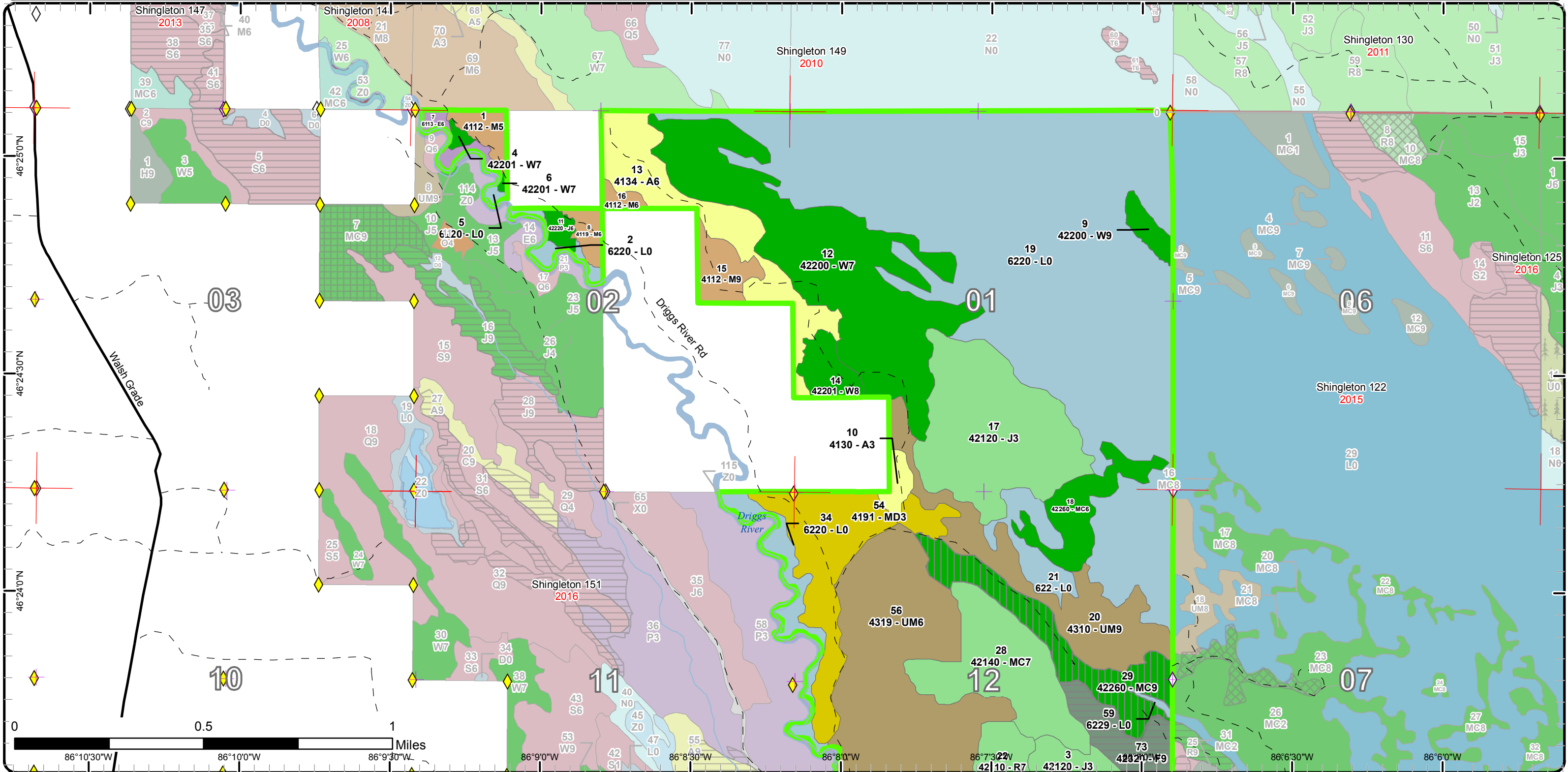


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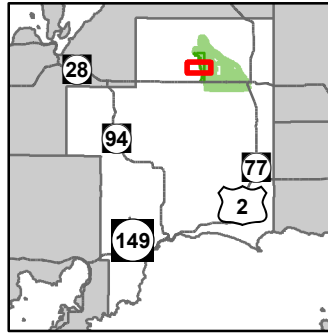


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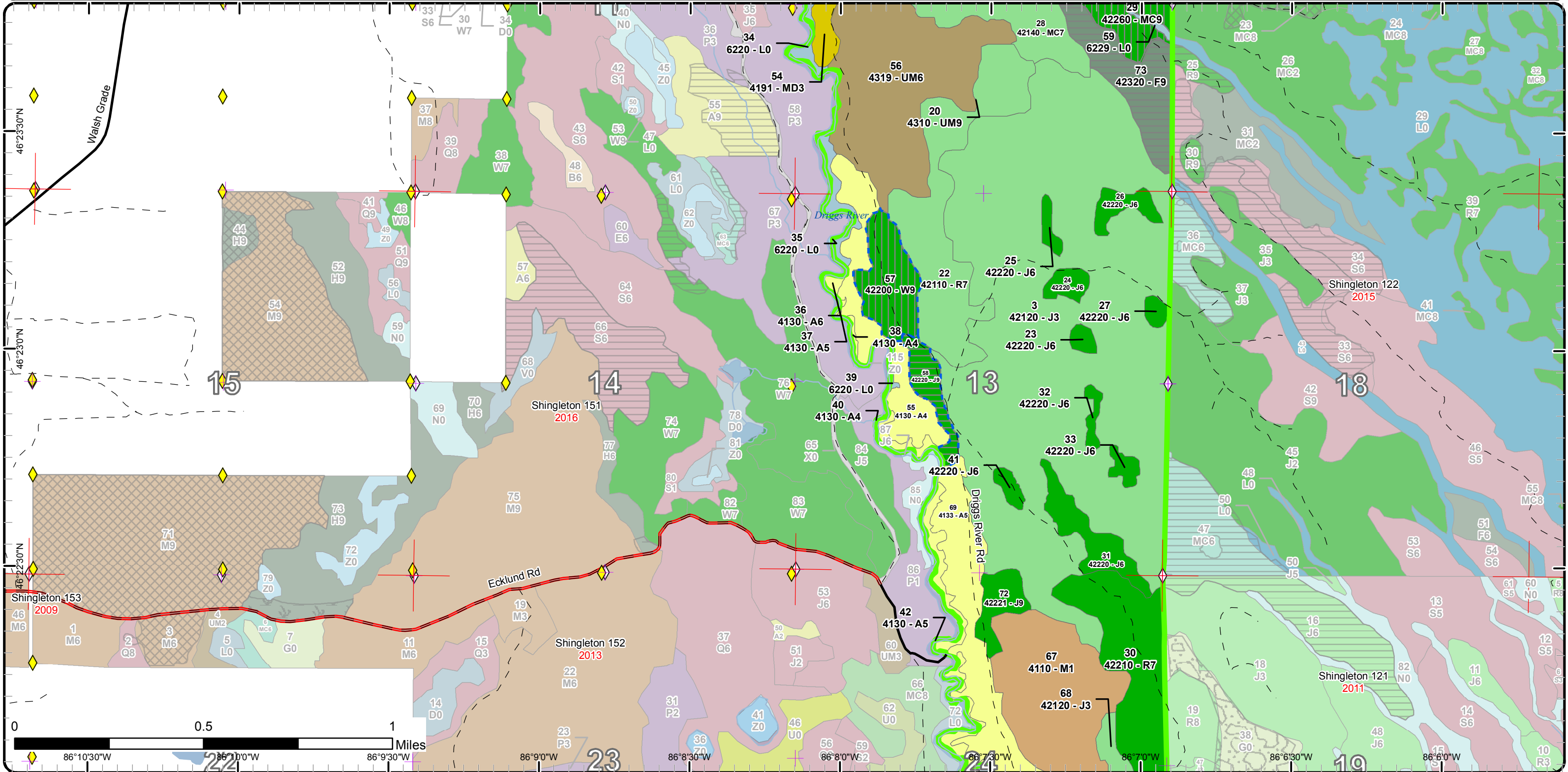


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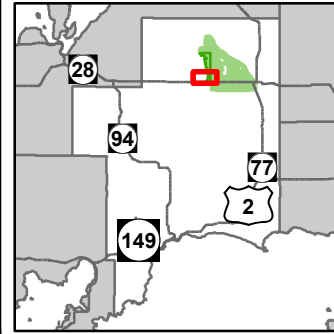


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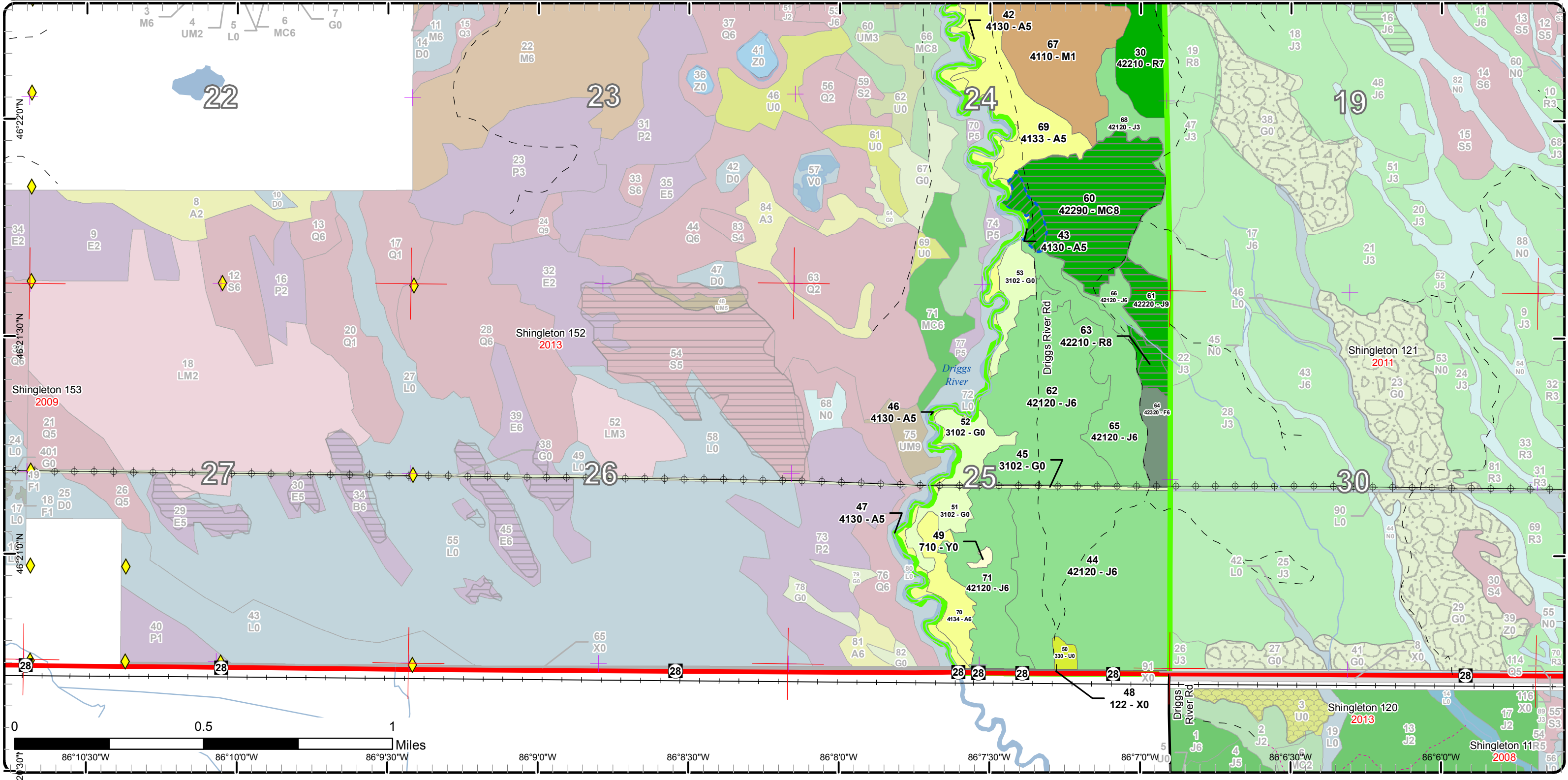


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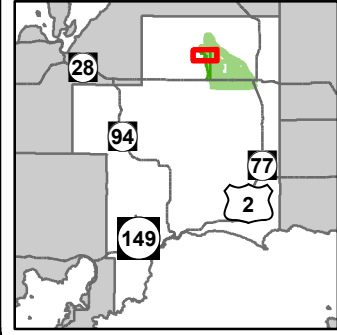
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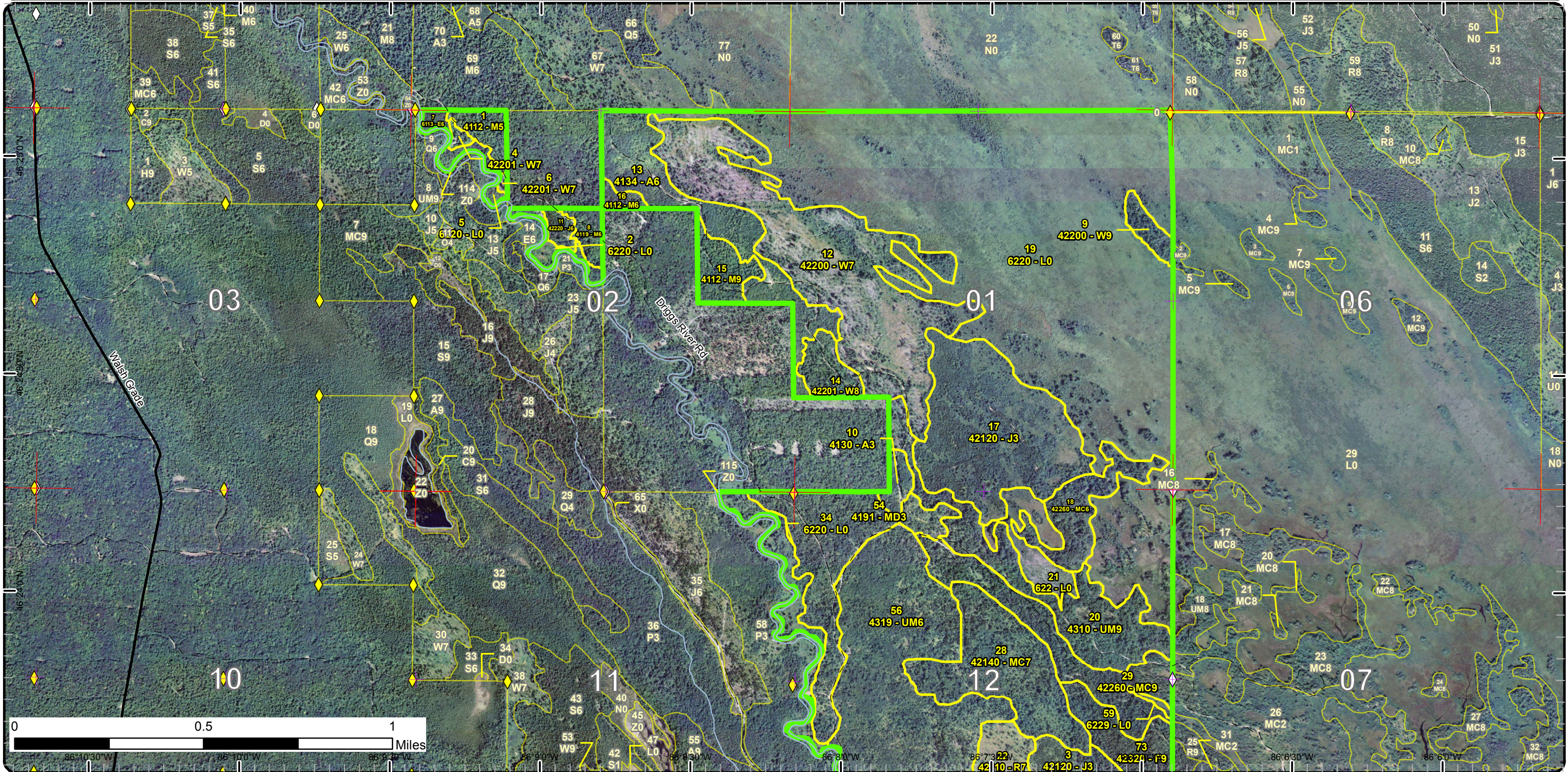


# Stand Boundary Map

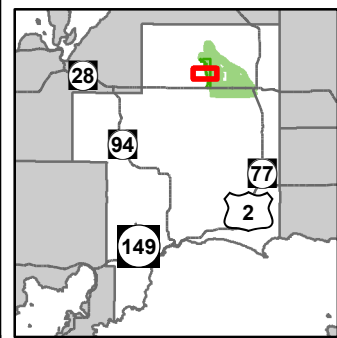


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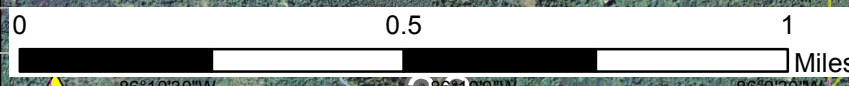
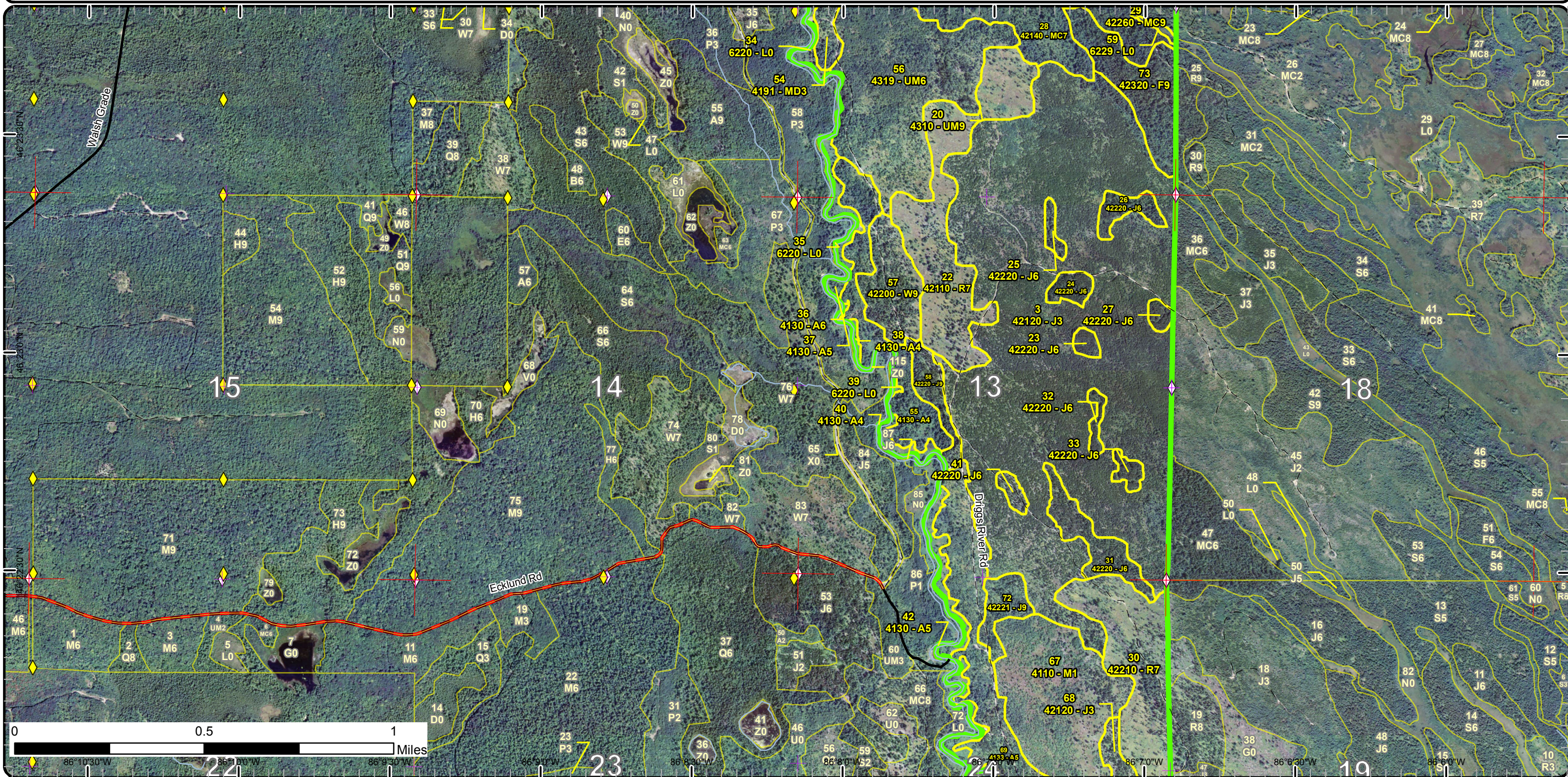


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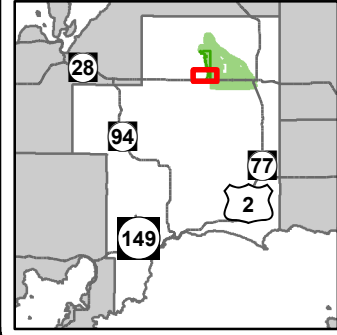
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86°10'30"W 86°10'00"W 86°9'30"W 86°9'00"W 86°8'30"W 86°8'00"W 86°7'30"W 86°7'00"W

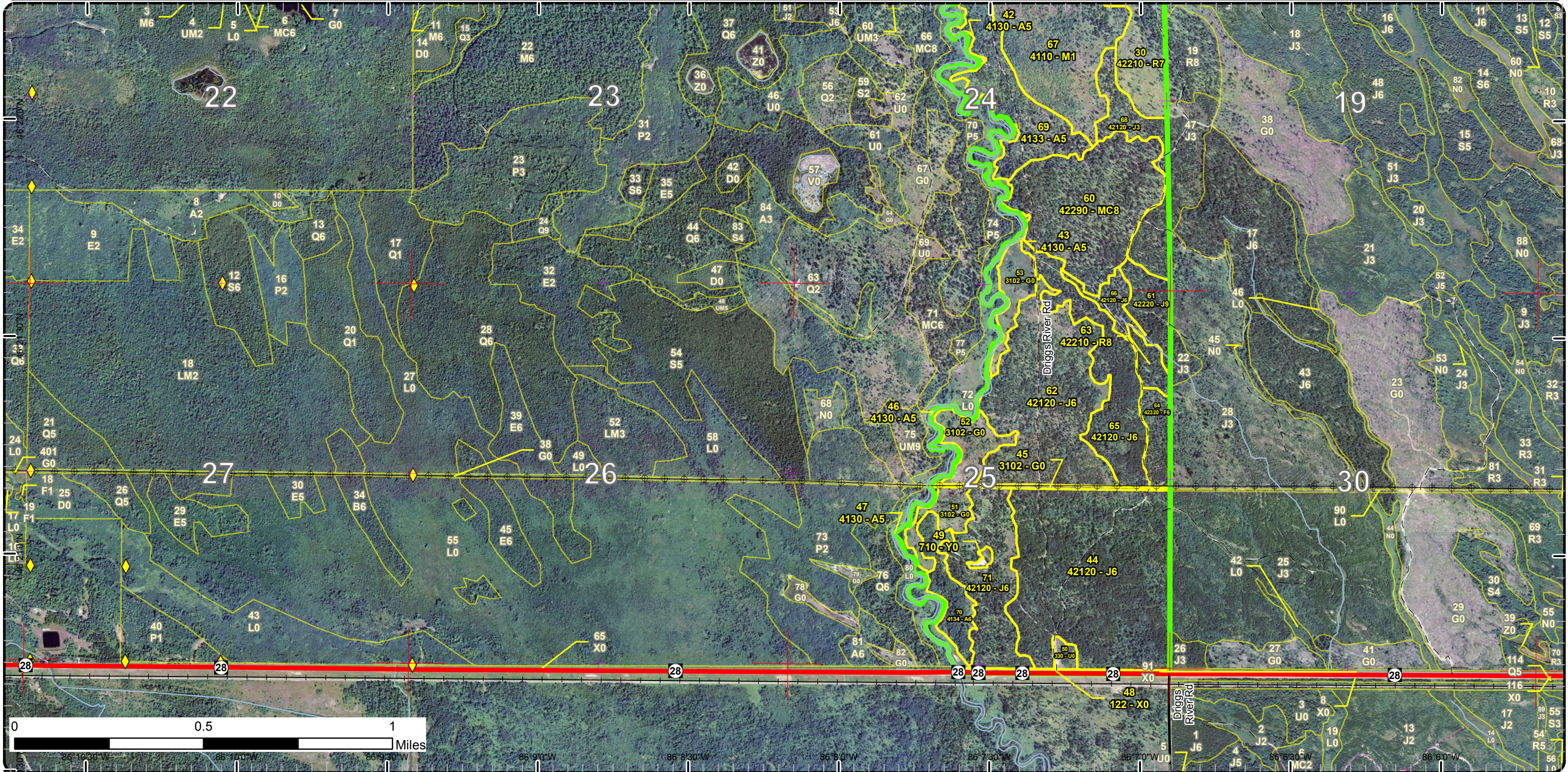


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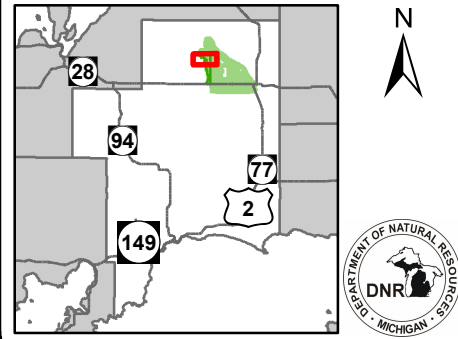
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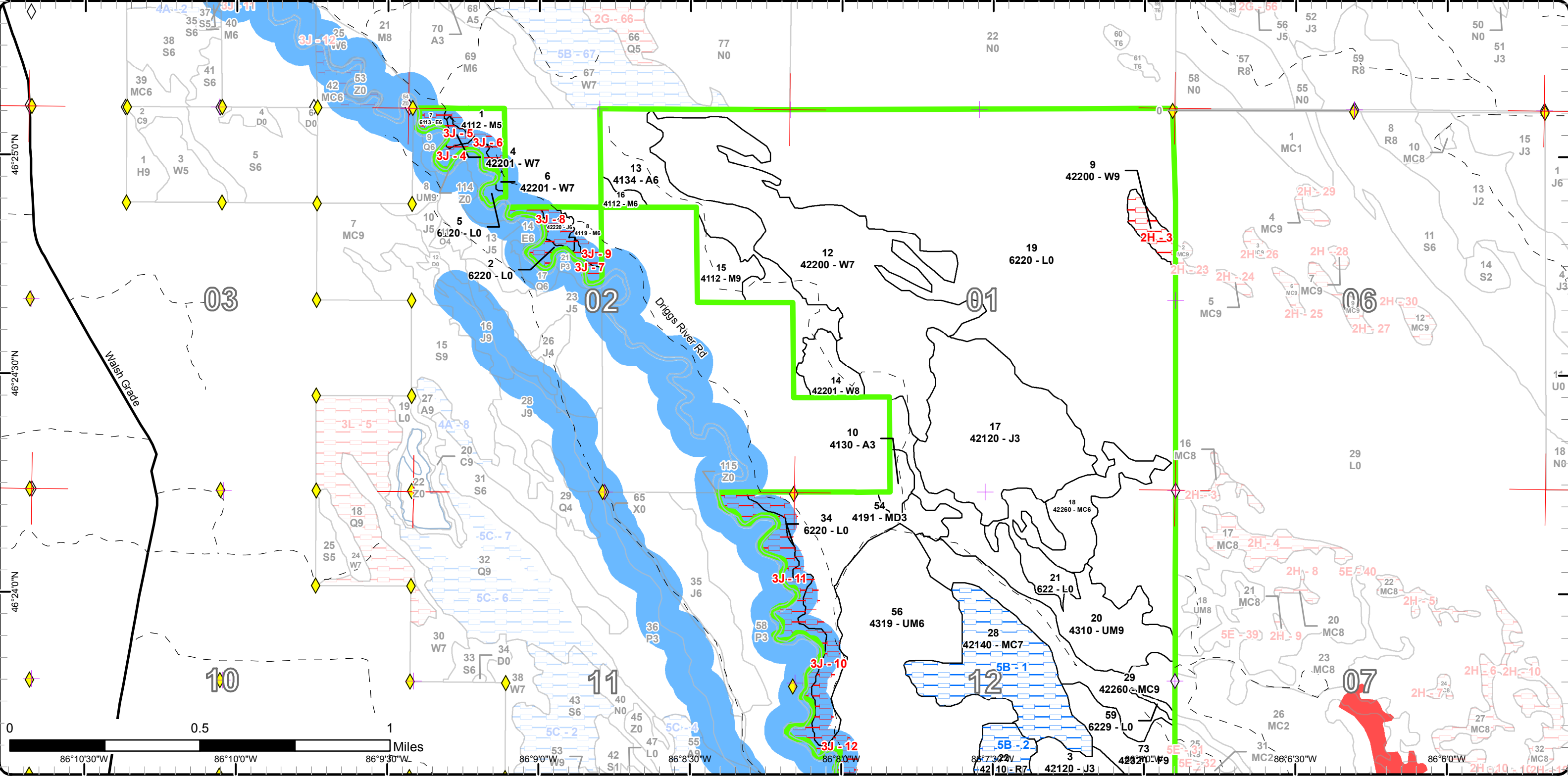


# Special Conservation Areas & Site Conditions Map

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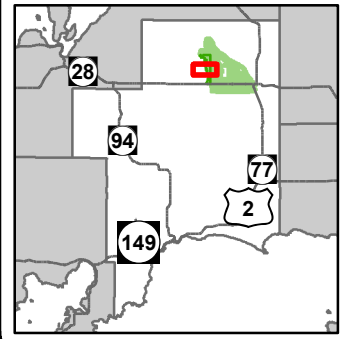


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- Available w/ Constraints
- Unavailable
- High Priority Trout Stream Buffer
- 5B: Maintain for regeneration purposes
- Unavailable Factors**
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- Special Conservation Areas
- Ecological Reference Areas
- Cold Water Streams

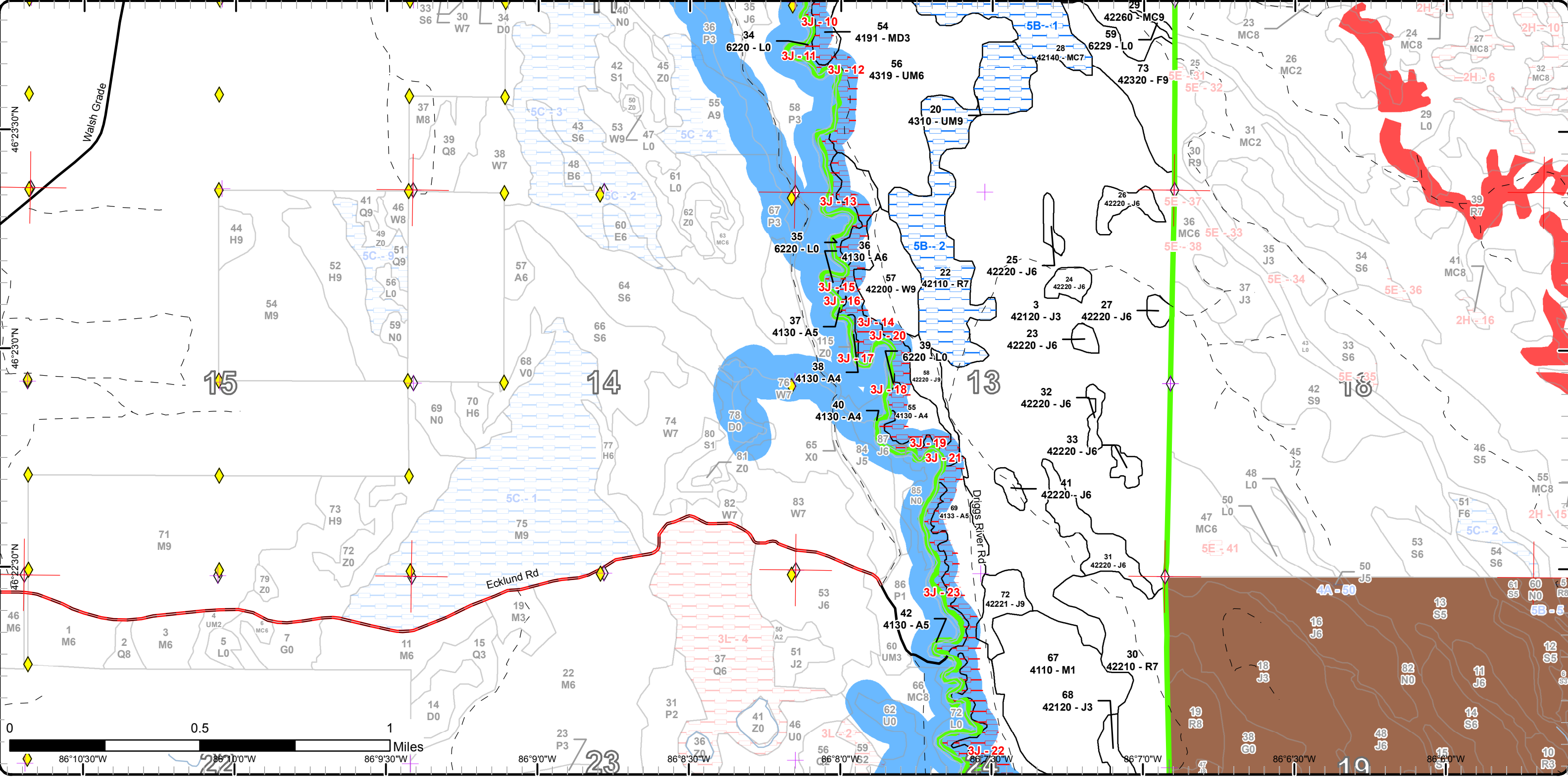


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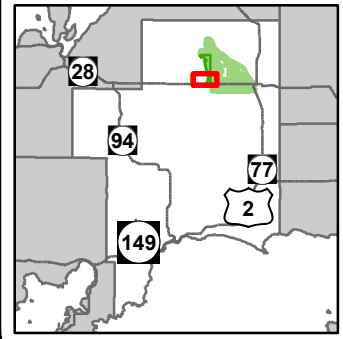


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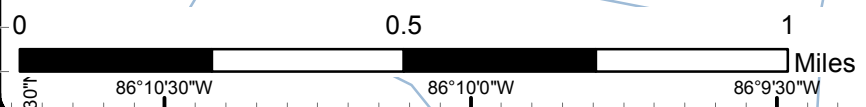
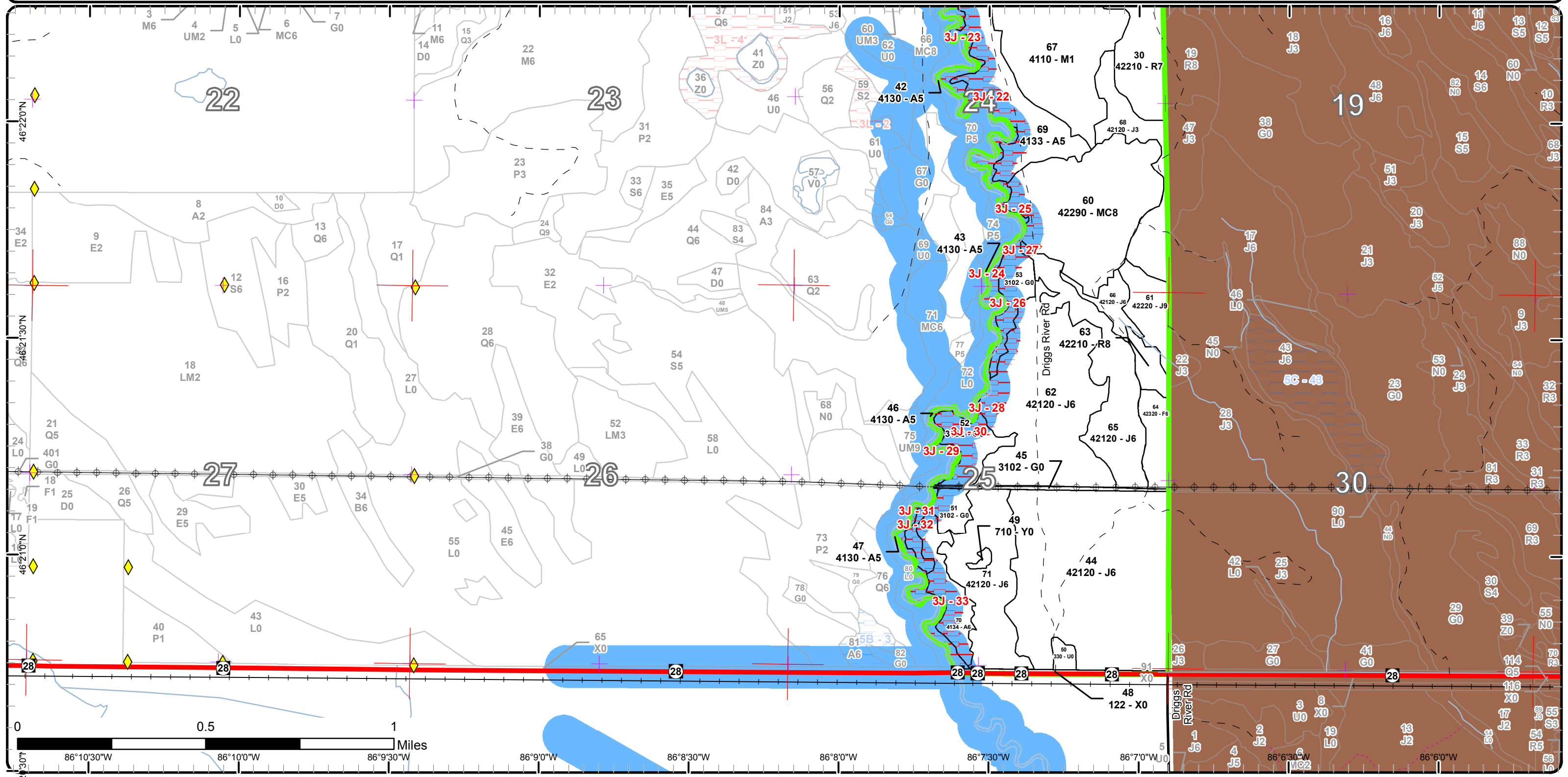


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Report 1 – Total Acres by Cover Type and Age Class



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	0	0	58	69	87	0	0	0	0	0	0	0	0	0	0	0	1	215
Herbaceous Openland	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Jack Pine	0	0	0	608	163	59	0	14	4	11	0	0	0	0	0	0	0	41	900
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Deciduous	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7
Lowland Shrub	492	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	492
Mixed Upland Deciduous	0	0	0	0	0	59	0	0	0	0	0	0	0	0	0	0	0	0	59
Natural Mixed Pines	0	0	0	0	0	0	0	0	70	0	0	0	0	0	0	0	0	70	140
Northern Hardwood	0	0	0	0	74	0	0	0	0	0	0	0	0	0	0	0	0	34	108
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	0	0	0	59
Red Pine	0	0	0	0	0	0	0	0	0	77	53	0	0	0	0	0	0	0	130
Sand, Soil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Upland Mixed Forest	0	0	0	0	159	0	0	0	0	0	0	0	0	0	0	0	0	57	216
Upland Spruce/Fir	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	32	43
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
White Pine	0	0	0	0	0	0	0	0	0	0	138	0	0	0	0	0	0	48	186
<b>Total</b>	<b>538</b>	<b>0</b>	<b>0</b>	<b>677</b>	<b>465</b>	<b>205</b>	<b>0</b>	<b>14</b>	<b>81</b>	<b>147</b>	<b>191</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>283</b>	<b>2601</b>



## Report 2 – Treatment Summary

Shingleton Mgt. Unit  
Year of Entry: 2017

Acres of Harvest

Compartment 150  
Total Compartment Acres: 2,600

Commercial Harvest - 159  
Harvests with Site Condition - 42  
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
Jack Pine	25	0	0	0	0	0	0	0	0	25
Natural Mixed Pines	64	0	0	0	43	6	0	0	0	114
Red Pine	6	0	0	0	0	0	0	0	0	6
Upland Spruce/Fir	32	0	0	0	0	0	0	0	0	32
White Pine	0	0	0	0	25	0	0	0	0	25
<b>Total</b>	<b>126</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>68</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>201</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	201	0	0	0	0	0	0	0	0	201
Next Step	0	94	69	0	0	0	328	0	0	492
<b>Total</b>	<b>201</b>	<b>94</b>	<b>69</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>328</b>	<b>0</b>	<b>0</b>	<b>692</b>



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
29	41150029-Cut	43.5	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	86	51-80	Harvest	Shelterwood with Retention	429 - Mixed Upland Conifers	Even-Aged	Proposal

**Habitat Cut: No****Site Condition:**

Prescription Shelterwood with retention: Green tree 40 -50 BA of residual trees of all representative species within stand, leave all oak.

Specs:

Next Step

Treatments:

Acceptable Any species currently on site.

Regen:

Other WLD comment - This prescription will retain and promote boreal forest characteristics which are preferred by Gray Jay. Retention will include scattered, wind-firm spruce and fir to support food caching opportunities. Old next step comments:

Proposed Start Date: 10/1 /2016

57	41150057-Cut	24.7	42200 - Natural White Pine	Sawtimber Well	81	81-110	Harvest	Shelterwood	4220 - Natural White Pine	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition: BMPs**

Prescription Shelterwood: Cut all Aspen, Jack pine and Maple, Mark red and white pine to 40-50 BA. Areas along river buffer leave a little more residual.

Specs:

Next Step

Treatments:

Acceptable White, red and jack pine.

Regen:

Other WLD comment - This final harvest will strive to balance age classes within the MA and create a temporary opening, within a mosaic of opening/forested habitat, which will benefit sharp-tailed grouse and other open-land dependent species. Old next step comments:

Proposed Start Date: 10/1 /2016

58	41150058-Cut	10.9	42220 - Natural Jack Pine	Sawtimber Well	81	51-80	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition: BMPs**

Prescription Clear-cut all species in stand. Green tree scattered white pine. Retention should be left in the river buffer zone.

Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Jack pine

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

60	41150060-Cut	63.9	42290 - Natural Mixed Pine	Sawtimber Medium	76	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Two-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Remove all merchantable timber from stand. Retention should be in areas heavy to Jack along the edges.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory); SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial

Treatments: Regen(3yr)

Acceptable Red pine.

Regen:

Other WLD comment - This final harvest will strive to balance age classes within the MA and create a temporary opening, within a mosaic of opening/forested habitat, which will benefit sharp-tailed grouse and other open-land dependent species. Old next step comments:

Proposed Start Date: 10/1 /2016



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
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60	41150060-Cutx	6.3	42290 - Natural Mixed Pine	Sawtimber Medium	76	51-80	Harvest	Crown Thinning	42210 - Natural Red Pine	Uneven-Aged	Proposal
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**Habitat Cut: No****Site Condition: BMPs**

Prescription Thin stand by marking red and white pine to a residual BA of 50 - 70.

Specs:

Next Step

Treatments:

Acceptable Red pine, white pine

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

61	41150061-Cut	13.9	42220 - Natural Jack Pine	Sawtimber Well	61	Unspecified	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clear cut stand leaving only 3-5% of stand as retention. retention should be in the south part of stand along low area.

Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Jack pine

Regen:

Other WLD comment - This final harvest will strive to balance jack pine age classes within the MA and create a temporary opening, within a mosaic of opening/forested habitat, which will benefit sharp-tailed grouse and other open-land dependent species. Old next step comments:

Proposed Start Date: 10/1 /2016

63	41150063-Cut	5.6	42210 - Natural Red Pine	Sawtimber Medium	86	1-50	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clear-cut all species within stand. No retention due to small acreage.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Red Pine

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

73	41150073-Cut	32.0	42320 - Upland Spruce	Sawtimber Well	86	51-80	Harvest	Clearcut with Retention	42330 - Upland Fir	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clear-cut all merchantable trees, except oak. Leave a retention pocket that is 3-5% of stands area. Do not cut cedar.

Specs:

Next Step

Treatments:

Acceptable Any species currently on site.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

**Total Treatment  
Acreage Proposed: 200.8**



## Report 5 – Site Conditions

Shingleton Mgt. Unit  
Scott Kentner : Examiner

Compartment: 150  
Year of Entry: 2017

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions		
		With Condition	Not Available		5B	2H	3J
215	106	0	109	Aspen			109
38	14	0	24	Herbaceous Openland			24
900	886	0	14	Jack Pine			14
3	3	0	0	Low-Density Trees			
7	0	0	7	Lowland Deciduous			7
492	459	0	33	Lowland Shrub			33
59	42	0	17	Mixed Upland Deciduous			17
140	134	0	6	Natural Mixed Pines			6
108	102	0	6	Northern Hardwood			6
59	0	59	0	Planted Mixed Pines	59		
130	60	70	0	Red Pine	70		
1	1	0	0	Sand, Soil			
217	208	0	9	Upland Mixed Forest			9
43	43	0	0	Upland Spruce/Fir			
4	4	0	0	Urban			
186	174	0	12	White Pine		7	4
2,600	2,236	129	236	Total Forested Acres	129	7	228
	86%	5%	9%	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	Available	5B: Maintain for regeneration purposes	59	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Overstory residual left after shelter wood harvest.							
2	Available	5B: Maintain for regeneration purposes	70	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Overstory left after shelterwood harvest.							

## Report 5 – Site Conditions

Shingleton Mgt. Unit  
 Scott Kentner : Examiner

Compartment: 150  
 Year of Entry: 2017

3	<b>Unavailable</b>	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Shingleton Mgt. Unit  
Scott Kentner : Examiner

Compartment: 150  
Year of Entry: 2017

9	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	27	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Shingleton Mgt. Unit  
Scott Kentner : Examiner

Compartment: 150  
Year of Entry: 2017

16	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Shingleton Mgt. Unit  
Scott Kentner : Examiner

Compartment: 150  
Year of Entry: 2017

23	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
26	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
27	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
28	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
29	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 5 – Site Conditions**

Shingleton Mgt. Unit  
 Scott Kentner : Examiner

Compartment: 150  
 Year of Entry: 2017

30	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
31	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
32	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
33	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



## Report 6 – 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
<b>Comments</b>				



**Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4112 - Maple, Beech, Cherry Association	Poletimber Medium	8.8	81	1-50	Cut in 2004, Very open canopy of red maple poles with the understory completely full of beech brush. Some residual XL white pine remain. Very few residual canopy beech (all have BBD).
3	42120 - Planted Jack Pine	Sapling Well	401.3	25	Immature	Very thick/densely populated Jack pine stand, planted in 1992. Looks like a good KW stand. Some aspen in NE corner of stand.
4	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Poor	1.8	91	Unspecified	Open stand with some Log sized white scattered. Small black cherry and red maple present.
6	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Poor	0.7	81	Unspecified	White pine of varying ages. all Aspen within stand were cut down by beaver. river buffer zone.
7	6113 - Lowland Maple	Poletimber Well	6.5	71	81-110	Driggs River Buffer. Old Black cherry with lots of pole sized red maple. Tag alder in areas closer to the river. Many of the cherry are dying or dead due to cankers.
8	4119 - Mixed Northern Hardwoods	Poletimber Well	6.9	65	81-110	Red maple stand with LOTS of beech brush, some pockets of hemlock. Nice Red maple stand, good to cut in 15 to 20 years after some growth.
9	42200 - Natural White Pine	Sawtimber Well	7.1	91	Unspecified	White pine stand in the middle of a lowland marsh on a ridge. Currently has a site condition on it 2G.
10	4130 - Aspen	Sapling Well	6.1	21	Immature	Unit 5 of North Driggs Block (41-034-90-01) clearcut in 1994. Aspen stand with scattered paper birch, white in the understory.
11	42220 - Natural Jack Pine	Poletimber Well	4.2	75	Unspecified	Jack pine, butts up to river buffer. Could be cut if buffer allows, small acreage.
12	42200 - Natural White Pine	Sawtimber Poor	138.4	91	1-50	Tag Team Tamarack (41-010-10-01) Clear-cut with reserves of white pine, hemlock red pine and cedar, oak. cut in 2013.  Nice tamarack regeneration coming in.
13	4134 - Aspen, Spruce/Fir	Poletimber Well	52.0	21	Immature	Units 5, 8, 9 or North Driggs block (41-034-90-01) Clear-cut in 1994. Really neat aspen stand with spruce growing through the thick aspen. Some scattered tamarack.
14	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Medium	12.8	91	51-80	unit 6 of North Driggs Block (41-034-90-01) Thinned white pine and paper birch, cut in 1994.  Very large White pine scattered at about 10-30 BA. Also paper birch intermixed with the white pine. Young white pine is growing-up through the understory.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	4112 - Maple, Beech, Cherry Association	Sawtimber Well	14.8	56	51-80	Unit 7 of North Driggs Block (41-034-90-01). Diameter limit cut, 14" and bigger of all trees and cut all balsam. Cut in 1994.  Red maple stand with hemlock patches. Pole stand turning into a nicer log stand. If we wait 1 cutting period would be able to thin.
16	4112 - Maple, Beech, Cherry Association	Poletimber Well	3.7	66	Unspecified	Nice red maple pole stand, wait 1 to 2 cycles for more growth and higher BA to cut.
17	42120 - Planted Jack Pine	Sapling Well	92.4	21	Immature	Units 3 and 4 of North Driggs Block (41-034-90-01) Clear-cut in 1991. Planted in 1994 to Jack pine.  Jack Pine stand with tamarack growing between the rows.
18	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	26.1	51	51-80	pine aspen mix, located on a ridge surrounded by marsh.
20	4310 - Pine, Oak Mix	Sawtimber Well	57.1	86	51-80	Mixed oak stand with pine. Nice looking oak with lots of regeneration. Pine is all sizes and ages.
22	42110 - Planted Red Pine	Sawtimber Poor	70.4	81	1-50	Units 1 and 2 of Wandering Coyote (41-023-07-01) Clear-cut Aspen and Jack pine cut in '09, Planted jack pine in 2010 and Oak in 2011. Regen check in 2014, 624 trees/acre.  Large Red and white pine residual with Jack pine regen under it.
23	42220 - Natural Jack Pine	Poletimber Well	2.7	43	Unspecified	patch of Black spruce and Jack pine. Stand origin in 1972.
24	42220 - Natural Jack Pine	Poletimber Well	5.2	43	Unspecified	patch of Jack pine and black spruce, 1972 origin.
25	42220 - Natural Jack Pine	Poletimber Well	3.1	43	Unspecified	Patch of Jack pine and black spruce, origin 1972.
26	42220 - Natural Jack Pine	Poletimber Well	7.4	43	Unspecified	Patch of Jack pine and Black spruce, 1972 origin.
27	42220 - Natural Jack Pine	Poletimber Well	2.7	43	Unspecified	Patch of Jack pine and Black spruce, 1972 origin.
28	42140 - Planted Mixed Pine	Sawtimber Poor	58.7	81	1-50	Upper Driggs Pine (41-069-97-01) clear-cut with reserves, cut in 1998, Planted in 2002 to Jack pine.  Open stand with red and white pine in the over story, seems more white pine and aspen have regenerated than jack pine which was planted. East edge of stand is wet with a drainage.
29	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	44.1	86	51-80	Mixed stand of varying ages of Red pine with lots of other species along the sides of the ridge. Red pine ranges from small poles to XL logs. Red pine has nice form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
30	42210 - Natural Red Pine	Sawtimber Poor	53.0	91	1-50	Units 3 and 4 of wandering Coyote 941-023-07-01) Clear-cut Jack pine reserve Red pine, White pine, oak and Cedar. Sale cut in 2008, planted to Jack pine in 2013. Regen check done in 2014, 372 Trees/acre.  Two-aged stand with Red and White residual and Jack pine planted in rows below.
31	42220 - Natural Jack Pine	Poletimber Well	17.1	43	Unspecified	Patch of Black spruce and jack pine. Stand origin 1972.
32	42220 - Natural Jack Pine	Poletimber Well	3.1	43	Unspecified	Patch of black spruce and jack pine. 1972 stand origin.
33	42220 - Natural Jack Pine	Poletimber Well	3.6	43	Unspecified	Patch of Jack pine and Black spruce. Stand origin 1972.
36	4130 - Aspen	Poletimber Well	1.4	46	Unspecified	Low quality Aspen, cherry Red maple stand within the Driggs river buffer.
37	4130 - Aspen	Poletimber Medium	0.4	36	Unspecified	Driggs river buffer with aspen.
38	4130 - Aspen	Poletimber Poor	1.0	36	Unspecified	River buffer of poor quality aspen and tag alder.
40	4130 - Aspen	Poletimber Poor	3.9	36	Unspecified	Open area with clumps of poor quality aspen. Driggs river buffer.
41	42220 - Natural Jack Pine	Poletimber Well	3.3	43	Unspecified	Patch of Jack pine and black spruce. Stand origin 1972.
42	4130 - Aspen	Poletimber Medium	15.4	46	Unspecified	River buffer of Driggs, poor quality aspen and black cherry. Open areas of grass and tag alder.
43	4130 - Aspen	Poletimber Medium	9.2	46	Unspecified	River buffer of Driggs, mostly aspen and poor quality black cherry some Tag alder in the low areas.
44	42120 - Planted Jack Pine	Poletimber Well	122.2	35	Immature	Jack pine planation, just makes pole size. Planted in 1980.
46	4130 - Aspen	Poletimber Medium	2.8	46	Unspecified	River buffer of Driggs, Aspen and poor quality Black cherry. Low areas full of Tag alder.
47	4130 - Aspen	Poletimber Medium	7.2	46	Unspecified	River buffer of Driggs, Asepna and black cherry low areas filled with tag alder.
54	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	58.8	47	Unspecified	Mixed stand mostly containing white pine, black cherry, and aspen. All trees are short and poor form, very bushy.
55	4130 - Aspen	Poletimber Poor	35.9	41	1-50	Open stand adjacent to the Driggs river. Variable aspen, very spread out in clumps.

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## Shingleton Mgt. Unit

## Report 8 – Forested Stands

Compartment: 150  
Year of Entry: 2017

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
56	4319 - Mixed Upland Forest	Poletimber Well	159.4	32	Immature	Large mixed stand of Aspen/Spruce/fir with some scattered White pine. Some open patches intermixed within stand.
57	42200 - Natural White Pine	Sawtimber Well	24.7	81	81-110	White pine stand.
58	42220 - Natural Jack Pine	Sawtimber Well	10.9	81	51-80	Jack pine stand with pockets of mixed aspen. Very large Red pine residual and thick Jack pine.
60	42290 - Natural Mixed Pine	Sawtimber Medium	70.2	76	51-80	Driggs red Pine 941-067-97-01) Thinned Red and White pine, clear-cut all Jack pine. Sale cut in 1999 then scarified, inmate planted to red pine with natural Jack pine regen.  Lots of white pine regen with some Red pine. Pockets of thick Jack pine.
61	42220 - Natural Jack Pine	Sawtimber Well	13.9	61	Unspecified	Jack pine stand, 4-5 sticks tall.
62	42120 - Planted Jack Pine	Poletimber Well	82.3	26	Immature	Large Jack pine plantation (planted in 1989) with pockets of Red and white pine intermixed. red and white pine are residual and larger in size. aspen in understory and scattered.
63	42210 - Natural Red Pine	Sawtimber Medium	6.6	86	1-50	Unit 5 of Wandering Coyote 941-023-07-01) clear-cut with reserves of Red pine and White pine, oak and cedar. Sale cut in 09. no FTP because residual was too high, recommended a clear-cut next entry and trench and plant to Red pine.
64	42320 - Upland Spruce	Poletimber Well	11.2	26	Immature	Black spruce stand with mixed Jack pine and Tamarack.
65	42120 - Planted Jack Pine	Poletimber Well	40.5	35	Immature	Jack pine stand with spots of Aspen and Red pine.
66	42120 - Planted Jack Pine	Poletimber Well	7.9	26	Immature	Jack pine that is variable in form and age, intermixed with white pine and Tamarack. some grassy openings.
67	4110 - Sugar Maple Association	Sapling Poor	73.8	36	Immature	Very open stand, brushy/bushy cherry, some aspen. Field like stand an occasional XL white scattered.
68	42120 - Planted Jack Pine	Sapling Well	24.9	22	Immature	Jack pine planted in 1993.
69	4133 - Aspen, Mixed Pine	Poletimber Medium	63.7	35	Immature	Patchy Aspen stand with White pine in the understory. Openings intermixed with White pine on the south end of the stand.
70	4134 - Aspen, Spruce/Fir	Poletimber Well	15.7	46	Unspecified	Aspen/fir stand adjacent to Driggs River.
71	42120 - Planted Jack Pine	Poletimber Well	40.5	26	Immature	Jack pine stand planted in 1989, North end is more Red pine.

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Shingleton Mgt. Unit

Report 8 – Forested Stands

Compartment: 150  
Year of Entry: 2017



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
72	42221 - Natural Jack Pine, Mixed Deciduous	Sawtimber Well	11.0	41	Unspecified	Jack pine stand with Aspen growing in, Jack pine is older and not very dense.
73	42320 - Upland Spruce	Sawtimber Well	32.0	86	51-80	Mixed stand of varying ages of Black spruce with lots of other species along the side of lowland.



Stand	Cover Type	Acres	Managed Site	General Comments:
2	6220 - Alder/willow	6.4	No	Tag alder lowland along river.
5	6220 - Alder/willow	1.5	No	Flood zone, lowland Tag Alder.
19	6220 - Alder/willow	437.2	No	Huge lowland brush stand. (tag alder marsh)
21	622 - Lowland Shrub	18.5	No	Lowland brush/marsh full of water.
34	6220 - Alder/willow	20.1	No	Driggs river buffer of tag alder.
35	6220 - Alder/willow	6.2	No	Tag alder next to river. Lowland river buffer.
39	6220 - Alder/willow	0.4	No	Lowland next to Driggs river.
45	3102 - Grass	3.5	No	Power line, grass opening.
48	122 - Road/Parking Lot	4.1	No	M-28 and road right-away.
49	710 - Sand, Soil	1.3	No	weirdest stand ever (sand dune with small pond) in the middle of a Jack pine stand.
50	330 - Low-Density Trees	2.9	No	Opening starting to grow in with Jack pine trees.
51	3102 - Grass	10.0	No	Mostly upland grassy area, flood plain of Driggs river. Boat launch with rock banks. RDR present.
52	3102 - Grass	13.2	No	Upland grassy opening (with some tag alder, flood plains of Driggs) 2 boat launches with nice rock banks
53	3102 - Grass	11.3	No	Upland grassy openings near flood plain of Driggs.
59	6229 - Mixed lowland shrub	1.3	No	Drainage with tag alder.