



# Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41121

Entry Year 2021

Acreage: 2,544

County Schoolcraft

Management Area: Seney Lake Plain

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**Stand Examiner:** Scott Kentner

**Legal Description:**

T46N, R14W, sec. 19, 20, 29, 30.

**Identified Planning Goals:**

To manage the compartment in accordance with the principles of sustainable forest eco-system management.

**Soil and topography:**

Low, wet ground with low ridges of pine. Soils include: Rousseau-Neconish-Deford Complex 0-25% slopes, Deford-Meehan-Seney Complex 0-3% slopes, Kinross-AuGres-Rubicon Complex 0-15% slopes, Rubicon Sand 0-25% slopes, and Deford Muck.

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

The majority of the land surrounding the compartment is State owned land, with private land to the northeast, and the Seney National Wildlife Refuge to the southeast.

**Unique Natural Features:**

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

None known.

**Special Management Designations or Considerations:**

None Known

**Watershed and Fisheries Considerations:**

This compartment contains waterbodies which serve as tributaries to Clarks Ditch. Tributaries of Clarks Ditch are non-designated streams less than 50' width. 100' plus 5' per 1% increase in slope; buffers are recommended for tributaries of Clarks Ditch to protect riparian areas in accordance with Best Management Practices.

**Wildlife Habitat Considerations:**

This compartment lies east of the Driggs River and north of M-28. The land cover is dominated by upland and lowland conifer stands, with several small drainages and marshy patches interspersed. Conifer stands have been managed on a rotational system, providing various age classes across the compartment and landscape. Wildlife management goals in this area are to maintain age and structural diversity between stands in such a pattern so as to create travel corridors with a basic north/south orientation. Species use of the compartment includes wolves, black bear, coyote, red fox, American martin, Nashville warbler, and kinglets. Moose have been occasionally seen in this compartment.

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

Surface sediments consist of lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton Group subcrops below the glacial drift. The Trenton is quarried for dolostone in the UP. Gravel pits are not found in the area and potential appears to be limited. There is no commercial oil and gas production in the UP.

**Vehicle Access:**

There are few dirt two-track roads within the compartment; large portions of the compartment are inaccessible by vehicles.

**Survey Needs:**

None at this time.

**Recreational Facilities and Opportunities:**

Although there are no recreational facilities in the compartment at this time, the area is often used for hunting.

**Fire Protection:**

**Additional Compartment Information:**

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

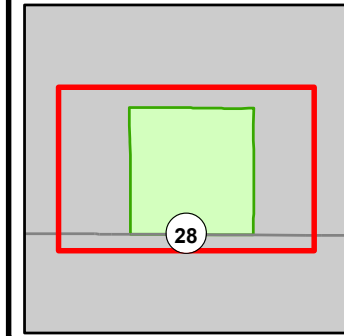
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

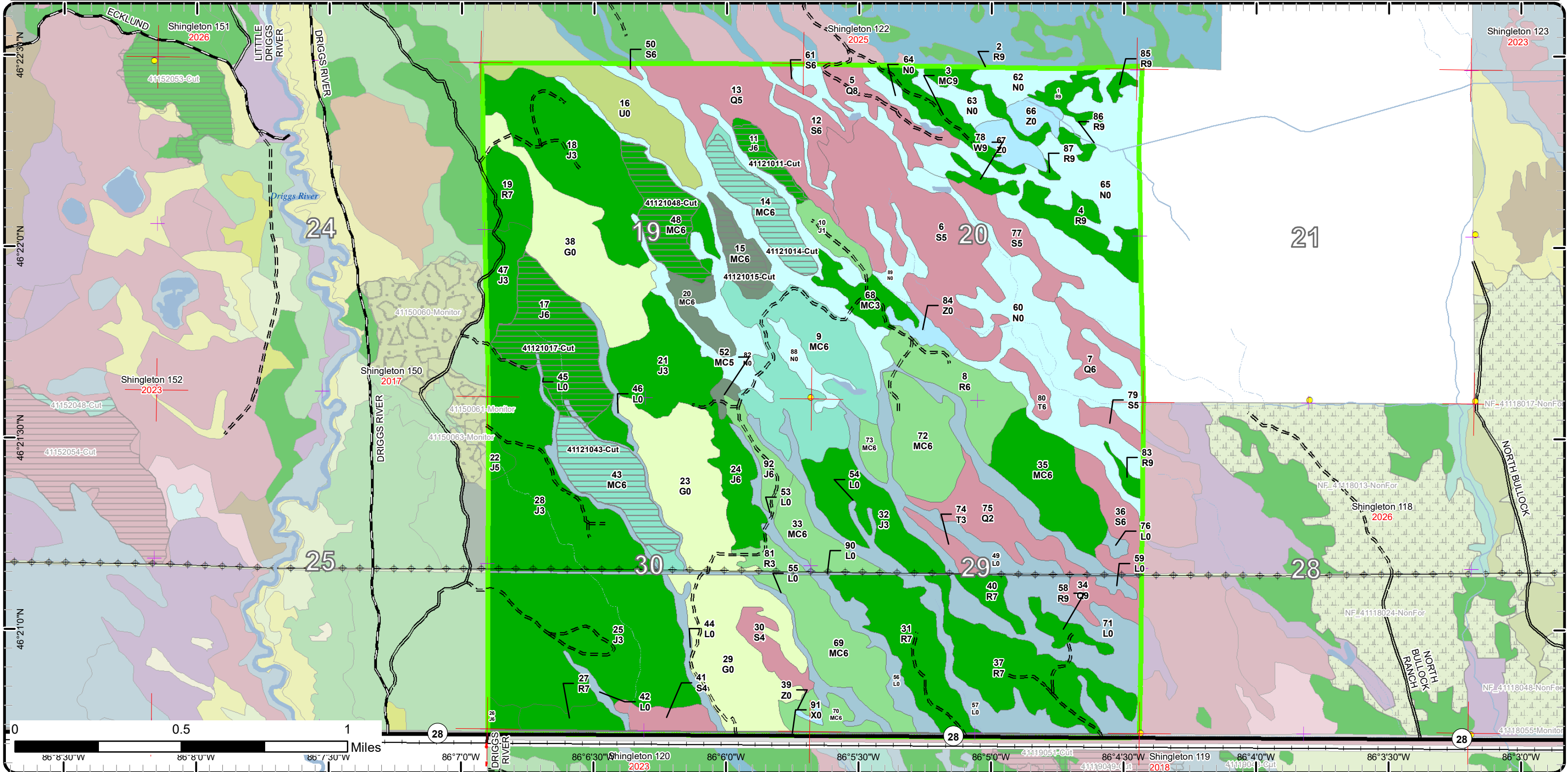
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 121  
 T46N, R14W, Sec: 19, 20, 29, 30  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: Seney Lake Plain  
 YOE: 2021  
 Acres: 2543.6 GIS Calculated  
 Examiner: Scott Kentner  
 Map Revised: 9/20/2023  
 Map Phase: Post Review

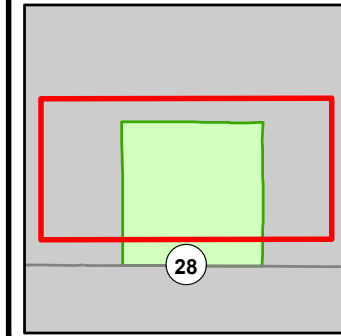


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- · - · County - Gravel Road
- Active Railroads
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

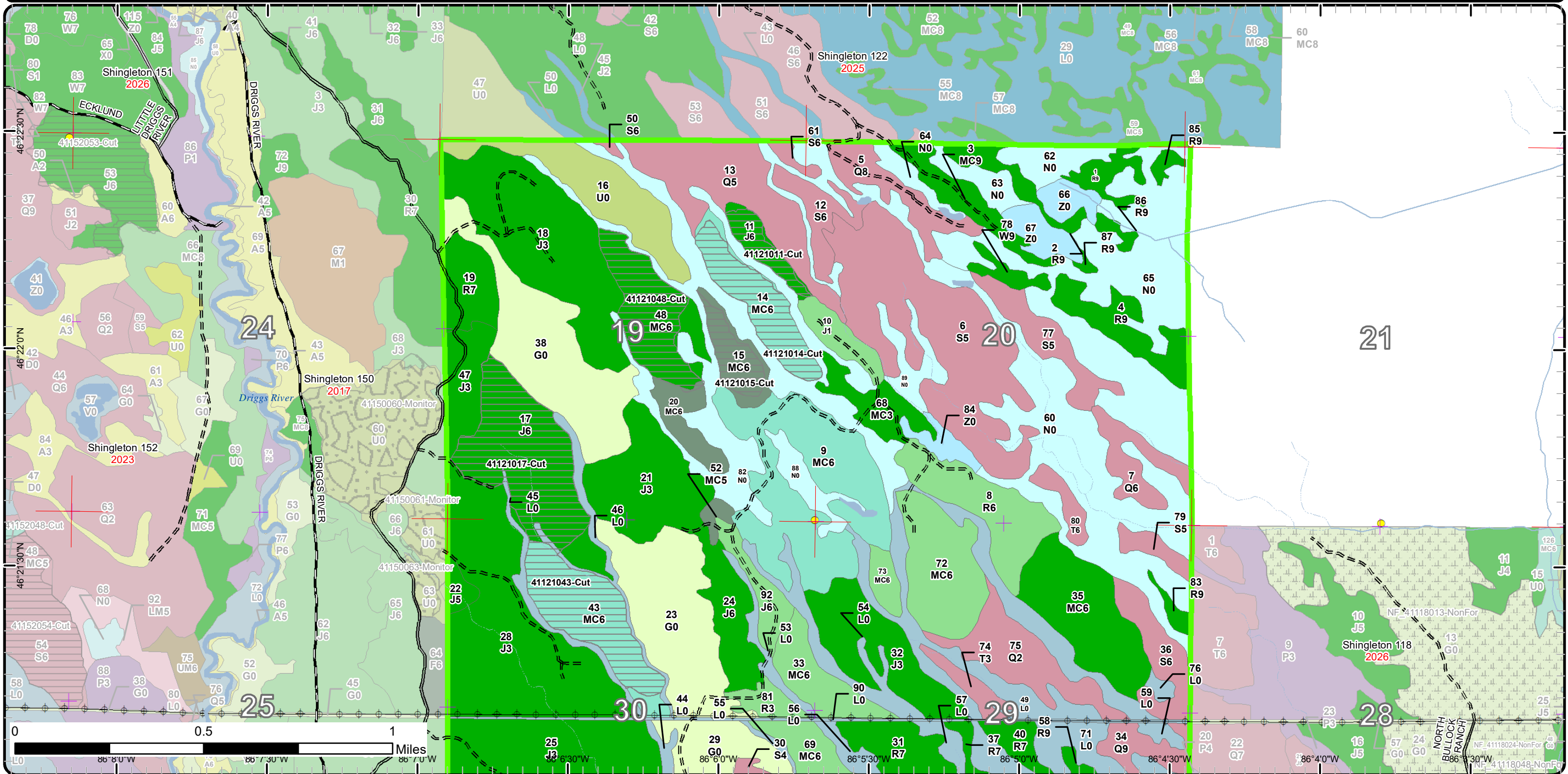


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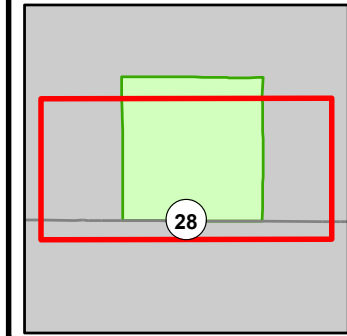


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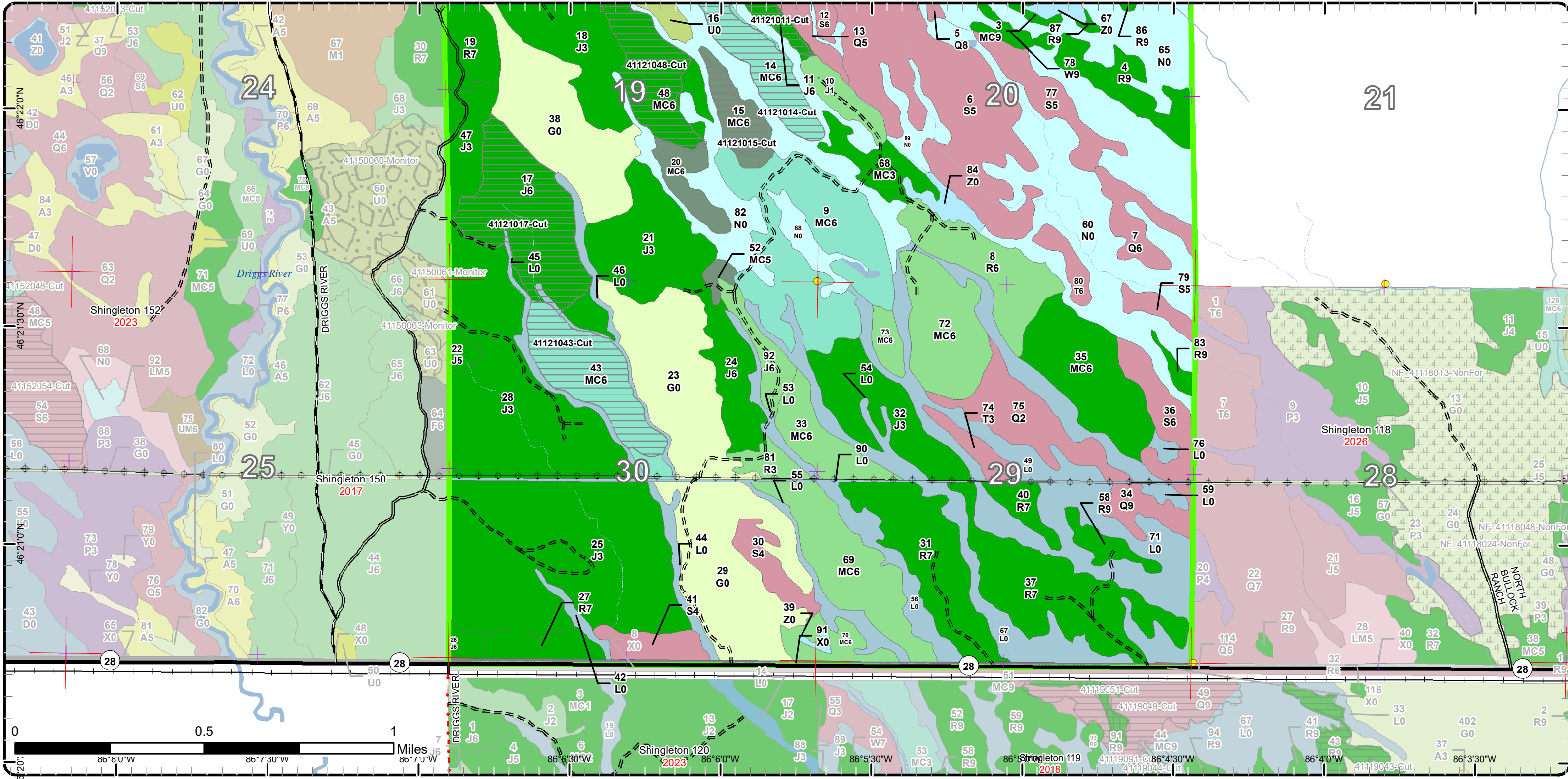


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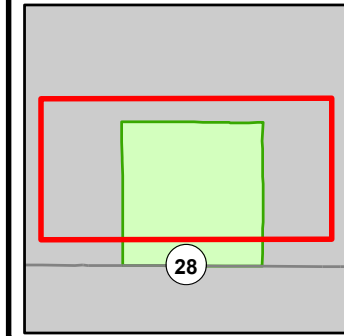


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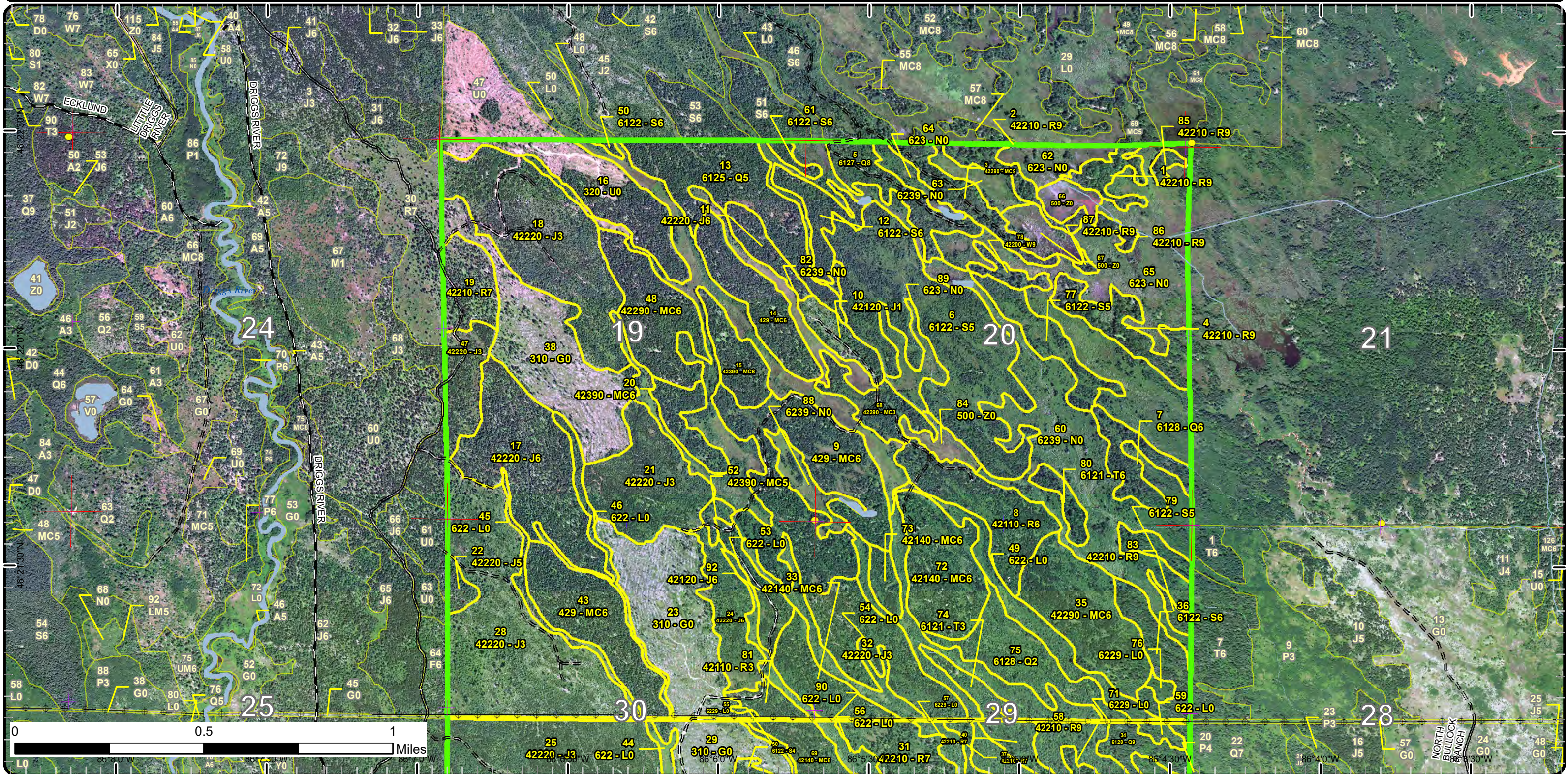


# Stand Boundary Map

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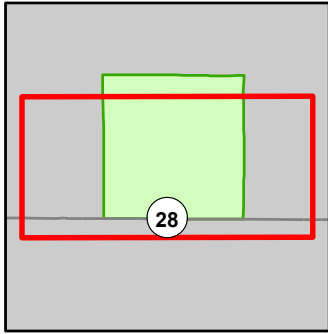


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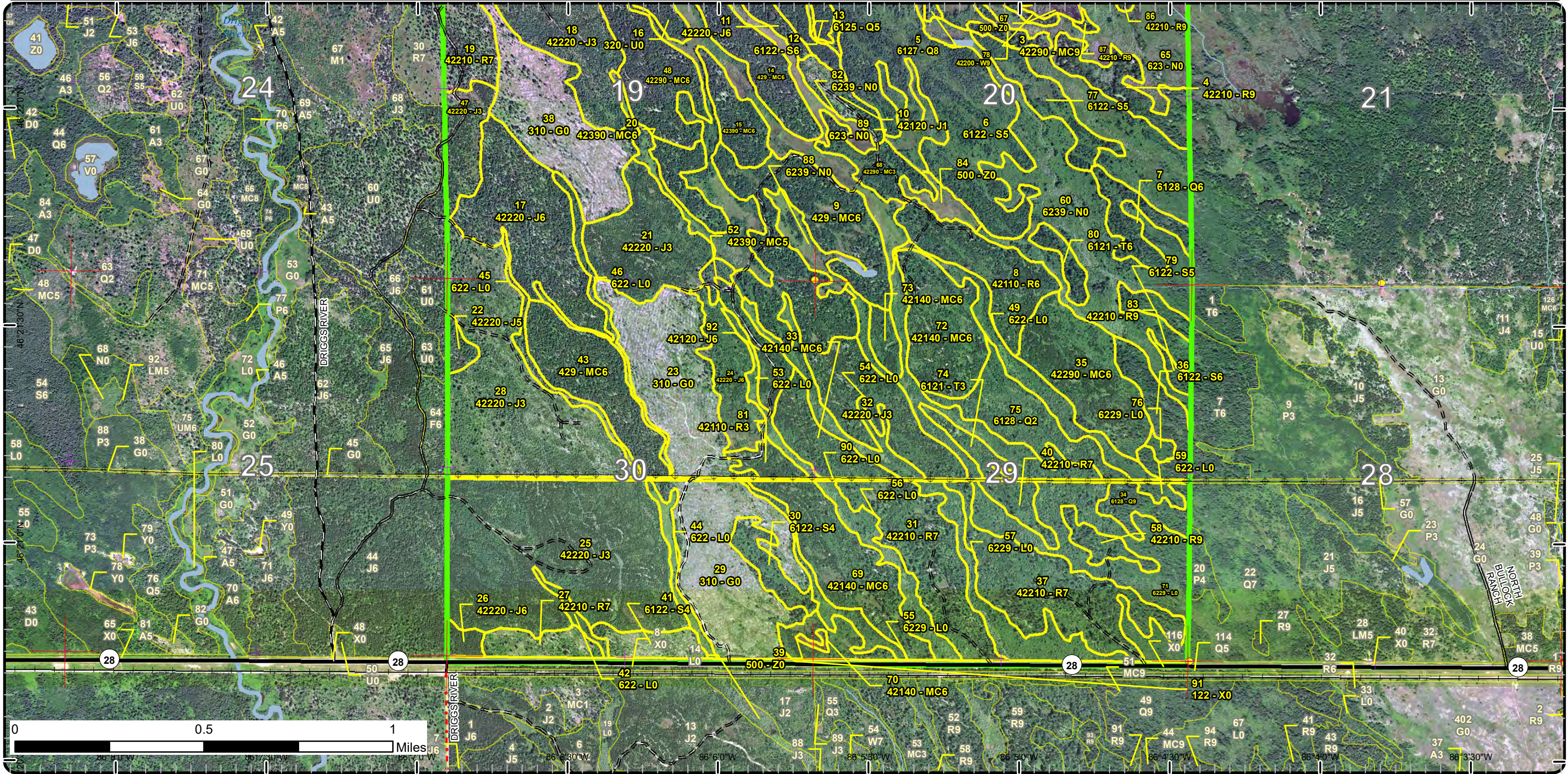


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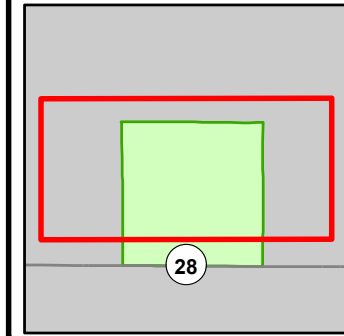


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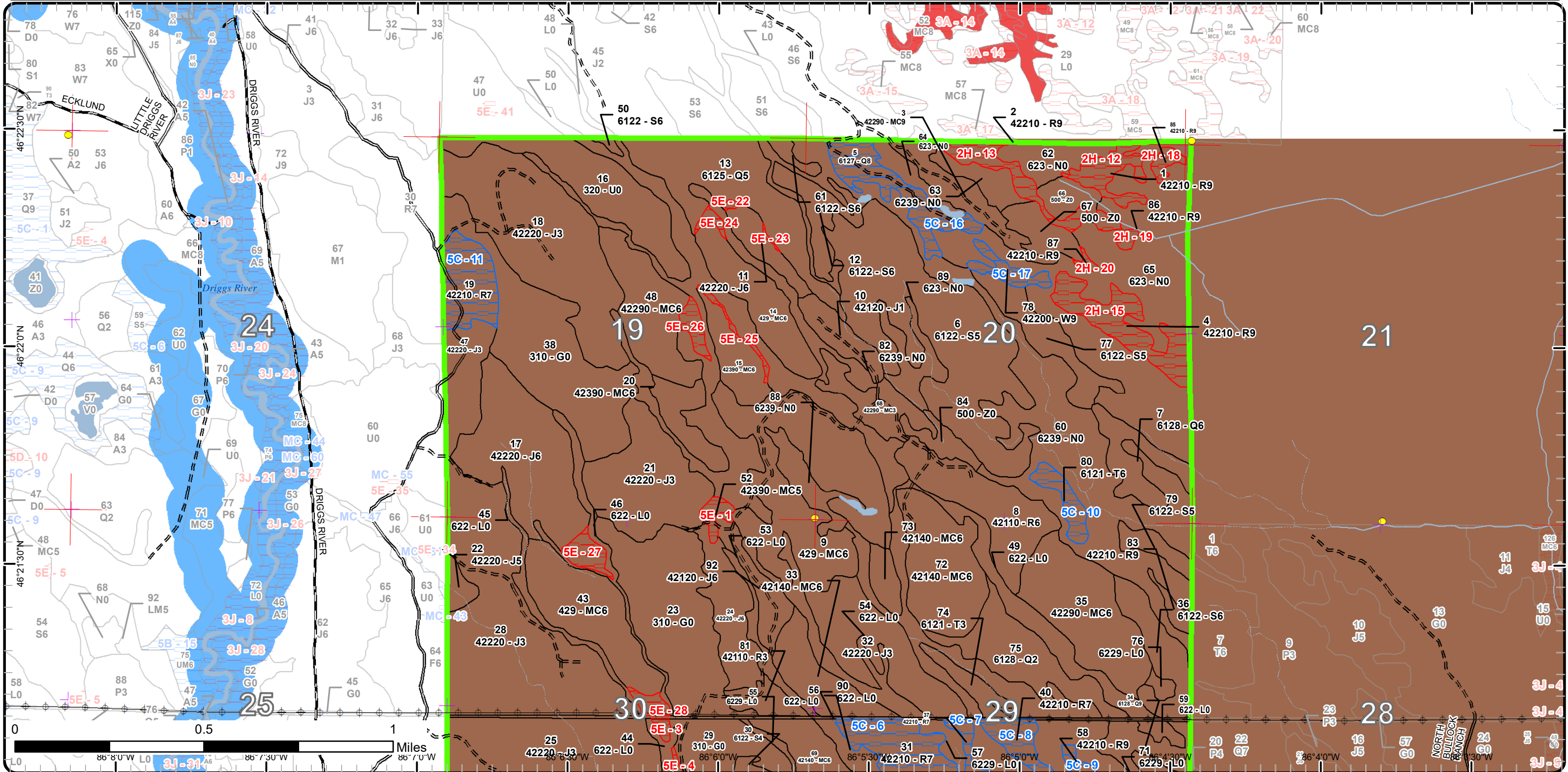


# Special Conservation Areas

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- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- High Priority Trout Stream Buffer
- Wildlife Management Areas

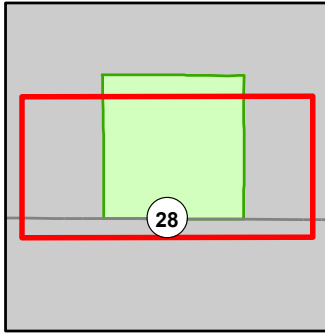


NORTH BULLOCK BRANCH

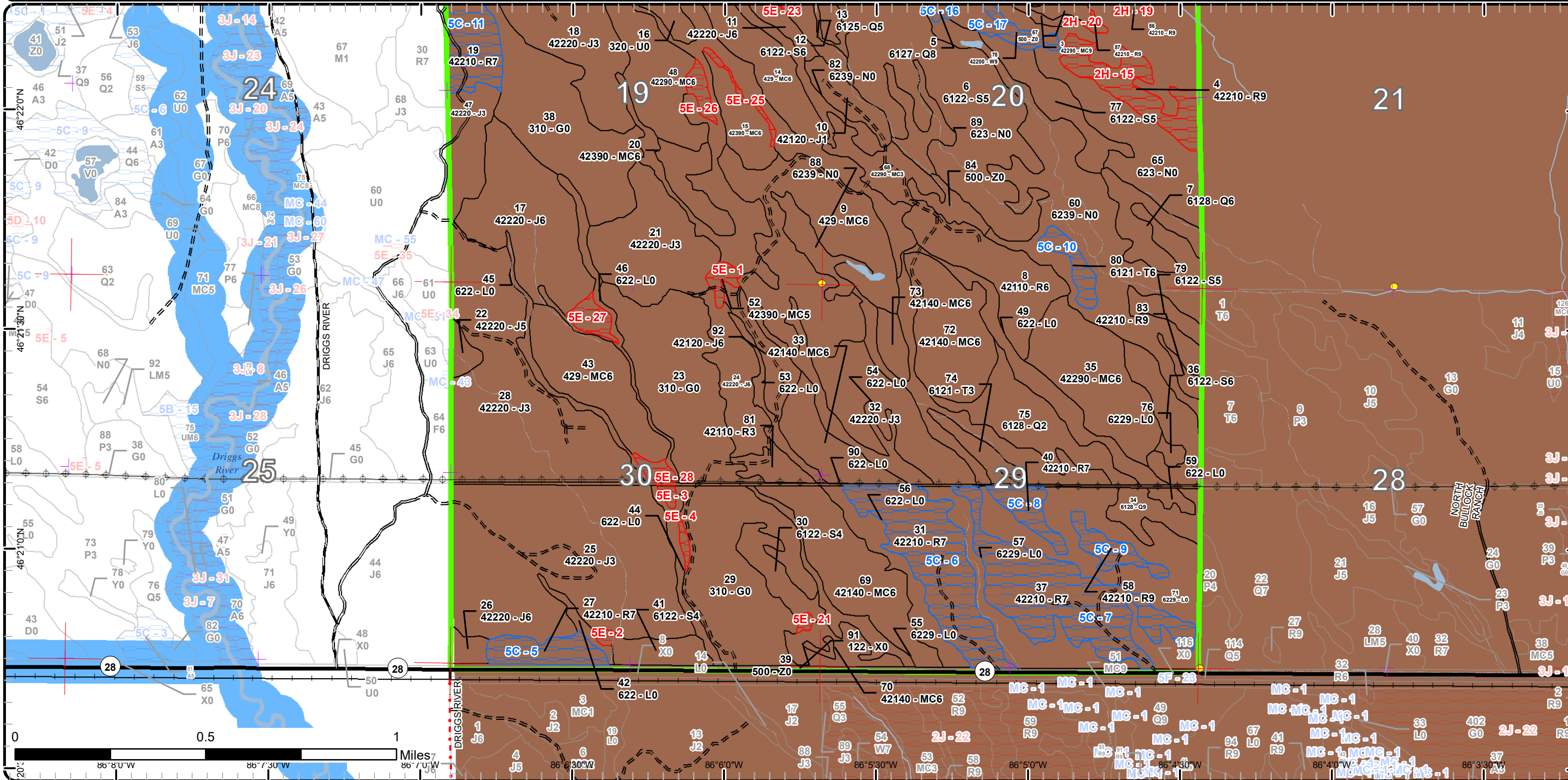


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Report 1 – Total Acres by Cover Type and Age Class



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
Herbaceous Openland	208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	208
Jack Pine	0	0	0	469	20	10	0	0	76	0	0	0	0	0	0	0	0	0	575
Lowland Conifers	0	0	0	32	0	0	0	13	69	0	21	0	0	0	0	0	0	0	135
Lowland Shrub	236	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	236
Lowland Spruce/Fir	0	0	0	0	128	12	0	21	27	13	0	0	0	0	0	0	0	0	201
Marsh	379	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	379
Natural Mixed Pines	0	0	0	49	17	0	0	0	38	0	18	0	0	0	0	0	0	0	121
Planted Mixed Pines	0	0	0	131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	131
Red Pine	0	0	0	45	0	0	0	0	23	76	118	0	0	0	0	0	0	0	262
Tamarack	0	0	0	8	0	0	0	0	7	0	0	0	0	0	0	0	0	0	15
Upland Conifers	0	0	0	14	85	0	0	4	89	0	0	0	0	0	0	0	0	0	192
Upland Shrub	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Urban	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Water	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
White Pine	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6
<b>Total</b>	<b>907</b>	<b>0</b>	<b>0</b>	<b>748</b>	<b>250</b>	<b>22</b>	<b>0</b>	<b>38</b>	<b>329</b>	<b>89</b>	<b>157</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2545</b>



## Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 121

Total Compartment Acres: 2,544

Commercial Harvest - 182  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Jack Pine	70	0	0	0	0	0	0	0	0	70
Natural Mixed Pines	33	0	0	0	0	0	0	0	0	33
Upland Conifers	79	0	0	0	0	0	0	0	0	79
<b>Total</b>	<b>182</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>182</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	182	0	0	0	0	0	0	0	0	182
Next Step	0	364	182	0	0	0	182	0	0	727
<b>Total</b>	<b>182</b>	<b>364</b>	<b>182</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>182</b>	<b>0</b>	<b>0</b>	<b>909</b>



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

<b>11</b>	<b>41121011-Cut</b>	9.5	42220 - Natural Jack Pine	Poletimber Well	78	1-50	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
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Prescription Specs: Clearcut with Rentention: Remove all trees within stand, retention should be left in pocket along the edge of the stand. Post harvest, scarify high ground to regenerate Jack pine component of the stand. If weather does not allow timely scarification, stand should just be monitored for natural regen.

Next Step Treatments: SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); Planting, Initial Plant; SitePrep, Trenching

Acceptable Regen: Any species currently on site.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

<b>14</b>	<b>41121014-Cut</b>	27.1	429 - Mixed Upland Conifers	Poletimber Well	78	81-110	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
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Prescription Specs: Clearcut with Rentention: Remove all trees within stand, retention should be left in pocket along the edge of the stand. Post harvest, scarify high ground to regenerate Jack pine component of the stand. If weather does not allow timely scarification, stand should just be monitored for natural regen.

Next Step Treatments: SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant

Acceptable Regen: any species currently on site

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

<b>15</b>	<b>41121015-Cut</b>	12.6	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	78	81-110	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
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Prescription Specs: Clearcut with Rentention: Remove all trees within stand, retention should be left in pocket along the edge of the stand. Post harvest, scarify high ground to regenerate Jack pine component of the stand. If weather does not allow timely scarification, stand should just be monitored for natural regen.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory); SitePrep, Scarification; SitePrep, Trenching; Planting, Initial Plant

Acceptable Regen: Any species currently on site.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>17 41121017-Cut</b>	60.1	42220 - Natural Jack Pine	Poletimber Well	79	51-80	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Clearcut with Rentention: Remove all trees within stand, retention should be left in pocket along the edge of the stand. Post harvest, scarify high ground to regenerate Jack pine component of the stand. If weather does not allow timely scarification, stand should just be monitored for natural regen.</p> <p><u>Next Step Treatments:</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant</p> <p><u>Acceptable Regen:</u> Any species currently on site.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>43 41121043-Cut</b>	39.3	429 - Mixed Upland Conifers	Poletimber Well	77	111-140	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription Specs:</u> Clearcut with Rentention: Remove all trees within stand, retention should be left in pocket along the edge of the stand. Post harvest, scarify high ground to regenerate Jack pine component of the stand. If weather does not allow timely scarification, stand should just be monitored for natural regen.</p> <p><u>Next Step Treatments:</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant</p> <p><u>Acceptable Regen:</u> Any species currently on site.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>48 41121048-Cut</b>	33.2	42290 - Natural Mixed Pine	Poletimber Well	77	81-110	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription Specs:</u> Clearcut with Rentention: Remove all trees within stand, retention should be left in pocket along the edge of the stand. Post harvest, scarify high ground to regenerate Jack pine component of the stand. If weather does not allow timely scarification, stand should just be monitored for natural regen. Green up may not be met before next harvest.</p> <p><u>Next Step Treatments:</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant</p> <p><u>Acceptable Regen:</u> Any species currently on site</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										

**Total Treatment Acreage Proposed: 181.8**

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Scott Kentner: Examiner

Compartment: 121  
Year of Entry: 2021

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions		
		With Condition	Not Available		5C	2H	5E
208	205	0	4	Herbaceous Openland			4
574	568	0	6	Jack Pine			6
135	114	21	0	Lowland Conifers	21		
236	236	0	0	Lowland Shrub			
200	199	0	1	Lowland Spruce/Fir			1
379	379	0	0	Marsh			
121	117	0	4	Natural Mixed Pines			4
131	131	0	0	Planted Mixed Pines			
263	49	163	51	Red Pine	163	51	
15	8	7	0	Tamarack	7		
192	182	0	10	Upland Conifers			10
40	40	0	0	Upland Shrub			
16	16	0	0	Urban			
28	28	0	0	Water			
6	0	6	0	White Pine	6		
2,544	2,270	197	76	Total Forested Acres	197	51	25
	89%	8%	3%	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	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
 Scott Kentner : Examiner

Compartment: 121  
 Year of Entry: 2021

3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	61	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Scott Kentner: Examiner

Compartment: 121  
Year of Entry: 2021

9	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	10	2D: Portable Bridge Needed (Dept. bridge will be adequate)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Scott Kentner: Examiner

Compartment: 121  
Year of Entry: 2021

15	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	3	2D: Portable Bridge Needed (Dept. bridge will be adequate)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Shingleton Mgt. Unit  
 Scott Kentner : Examiner

Compartment: 121  
 Year of Entry: 2021

20	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
26	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

**Shingleton Mgt. Unit**  
**Scott Kentner : Examiner**

**Compartment: 121**  
**Year of Entry: 2021**

27	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
28	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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
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	42210 - Natural Red Pine	Sawtimber Well	9.9	93	81-110	N/A	Very difficult access. Island in a marsh, would need to cross large drainage ditch to access.																																																			
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3	42290 - Natural Mixed Pine	Sawtimber Well	18.0	93	81-110	N/A	Narrow ridge within marsh; difficult access.																																																			
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5	6127 - Lowland Pine	Sawtimber Medium	21.2	92	81-110	N/A	Scattered red and white pine. Regeneration consists of white pine, b.spruce, and red maple.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>6</b>	6122 - Black Spruce	Poletimber Medium	107.5	39	Unspecified	N/A	Mainly b.spruce with jack pine, tamarack, white pine. Low, wet drainages throughout the stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	20	Sapling/Pole	4	
Jack Pine	20	Sapling/Pole	4	
White Pine	5	Sapling/Pole	4	
Black Spruce	55	Sapling/Pole	4	39

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Medium	< 5 feet	Sapling
Tamarack	Medium	5 - 10 feet	Sapling
Jack Pine	Low	< 5 feet	Sapling
Tag Alder	Full	5 - 10 feet	Tall Shrub

<b>7</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	17.5	78	51-80	N/A	Surrounded by marsh. Spruce, tamarack, and aspen with scattered red and white pine.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	15	XLog/Log	18	
Quaking Aspen	15	Pole	6	
Red Maple	5	Pole	6	
Red Pine	5	Log	16	
Tamarack	35	Pole	7	78
Black Spruce	25	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Full	5 - 10 feet	Tall Shrub
Quaking Aspen	Medium	< 5 feet	Sapling
Red Maple	Low	< 5 feet	Sapling
Black Spruce	Medium	< 5 feet	Sapling

<b>8</b>	42110 - Planted Red Pine	Poletimber Well	37.3	26	1-50	N/A	Planted red pine. Low areas with natural spruce and tamarack. Scattered residual red and white pine (<10BA).
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	60	Pole	5	26
White Pine	5	Pole/Sapling	5	
Black Spruce	10	Sapling	4	
Tamarack	5	Sapling	4	
Jack Pine	20	Sapling	4	

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Medium	< 5 feet	Sapling
Black Spruce	Medium	< 5 feet	Sapling

<b>9</b>	429 - Mixed Upland Conifers	Poletimber Well	85.0	39	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	15	Sapling/Pole	4	
White Pine	5	Log	10	
Jack Pine	45	Pole/Sapling	5	39
Red Pine	5	Pole	5	
Black Spruce	30	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	Low	< 5 feet	Sapling
Black Spruce	Low	< 5 feet	Sapling
Jack Pine	Low	< 5 feet	Sapling

<b>10</b>	42120 - Planted Jack Pine	Sapling Poor	12.0	21	Immature	N/A	Hand planted in 2002 with red pine. Scattered residual red pine.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	95	Sapling	3	21
Red Pine	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
11	42220 - Natural Jack Pine	Poletimber Well	11.0	78	1-50	N/A	High ridge with jack pine; black spruce on lower ground near edges.		
<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>
Black Spruce		30	Pole	5		Black Spruce	Low	< 5 feet	Sapling
Jack Pine		70	Pole	7	78	Jack Pine	Low	< 5 feet	Sapling
12	6122 - Black Spruce	Poletimber Well	15.4	75	1-50	N/A	Mix of black spruce and jack pine with scattered white pine, red pine. Mainly low, wet ground with medium to tall shrubs.		
<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>
Red Pine		20	Log	12		Red Maple	Medium	< 5 feet	Sapling
White Pine		10	XLog/Log	18		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Red Maple		5	Pole	6		Black Spruce	High	< 5 feet	Sapling
Jack Pine		10	Pole	6					
Black Spruce		50	Pole	7	75				
Paper Birch		5	Pole	6					
13	6125 - Lowland Black Spruce, Jack Pine	Poletimber Medium	50.8	79	51-80	N/A	Black spruce and jack pine mix, with scattered tamarack, white and red pine. Low, wet ground with ridges.		
<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>
White Pine		10	Log	10		Black Spruce	Medium	< 5 feet	Sapling
Black Spruce		40	Pole	6	79	Jack Pine	Medium	< 5 feet	Sapling
Jack Pine		30	Pole	6		White Pine	Medium	< 5 feet	Sapling
Tamarack		20	Pole	8		Tamarack	Medium	< 5 feet	Sapling
14	429 - Mixed Upland Conifers	Poletimber Well	29.3	78	81-110	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>
Red Pine		5	XLog	18		Black Spruce	High	10 - 20 feet	Sapling
Jack Pine		30	Pole	8		Jack Pine	High	10 - 20 feet	Sapling
Black Spruce		45	Pole	8	78				
White Pine		10	XLog	18					
Tamarack		10	Pole	6					
15	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	17.3	78	81-110	N/A	Mix of black spruce and jack pine with scattered white pine, and tamarack. Low, wet areas throughout.		
<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>
Black Spruce		50	Pole	7	78	Black Spruce	High	< 5 feet	Sapling
Jack Pine		25	Pole	7		Tag Alder	Low	5 - 10 feet	Tall Shrub
White Pine		10	Log	10		Red Maple	Low	< 5 feet	Sapling
Tamarack		15	Pole	6		Jack Pine	Medium	< 5 feet	Sapling





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16	320 - Upland Shrub	Nonstocked	40.4	0	Unspecified	4212 - Planted Jack Pine	Block 6 on Driggs. Trenched summer 2018 by DNR staff. "High ground" planted spring 2019, approx. 20% of stand. only check areas on high ground regen check fall 2019, did not pass needs replant. replanted spring of 2020. 1st season check in summer 2020, 1305 TPA. passed 3rd year check passed. 1040 TPA
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17	42220 - Natural Jack Pine	Poletimber Well	65.0	79	51-80	N/A	Jack pine on higher ground with b.spruce on lower ground.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	90	Pole	7	79	Quaking Aspen	Low	< 5 feet	Sapling
Black Spruce	10	Pole	6		Black Spruce	Medium	10 - 20 feet	Sapling

18	42220 - Natural Jack Pine	Sapling Well	82.1	26	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	85	Sapling/Pole	3	26	Quaking Aspen	Medium	< 5 feet	Sapling
White Pine	10	Pole/Sapling	6		Jack Pine	High	< 5 feet	Sapling
Red Pine	5	Pole/Sapling	5					

19	42210 - Natural Red Pine	Sawtimber Poor	20.1	91	51-80	N/A	Harvested last entry. Some red pine hand planted by inmates in openings after harvesting.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	15	Log	12		Jack Pine	High	10 - 20 feet	Sapling
Black Spruce	10	Pole	6		White Pine	High	10 - 20 feet	Sapling
Red Pine	75	Log	12	91				

20	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	13.8	27	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	35	Pole	5		Black Spruce	Medium	< 5 feet	Sapling
White Pine	5	XLog	18		Jack Pine	Medium	< 5 feet	Sapling
Tamarack	10	Pole	5					
Black Spruce	50	Pole	5	27				

21	42220 - Natural Jack Pine	Sapling Well	46.9	26	Immature	N/A	Stand was trenched but filled in naturally with Jack pine, Black spruce and Tamarack.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	5	Sapling	4		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Cherry	3	Sapling	4		Jack Pine	Medium	< 5 feet	Sapling
Jack Pine	70	Sapling	4	26	Black Spruce	Medium	< 5 feet	Sapling
Paper Birch	2	Sapling	4		Tamarack	Low	< 5 feet	Sapling
Black Spruce	15	Sapling	4					
White Pine	5	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
22	42220 - Natural Jack Pine	Poletimber Medium	4.8	45	Unspecified	N/A																																																						
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23	310 - Herbaceous Openland	Nonstocked	66.0	0	Unspecified	4222 - Natural Jack Pine	10/31/11 bb Stand is on proposal 6-11 Passing Lane Pine, Unit 2 and 3. Residual BA Red Pine 1.9' and white pine .5'. Retention excluded along marsh edges with paint line. FTP C41-1514 submitted for jack pine regen. [12-18-13] Sale is now closed TCR dtd 10-14-13. 1057 red oak Planted in spring of 2014 under FTP W41-1604 at a cost of \$13106.80 (7/30/14) Passed natural regen check 2018.																																																					
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24	42220 - Natural Jack Pine	Poletimber Well	24.2	26	81-110	N/A																																																						
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27	42210 - Natural Red Pine	Sawtimber Poor	13.4	89	1-50	N/A	Stand was planted with red oak saplings according to ftp W41-1604, 2014. 10/31/11 bb Stand is on proposal 6-11 Passing Lane Pine, Unit 1. Residual BA Red Pine 11.6' and white pine 1.6'. Retention excluded along marsh edges with paint line. FTP C41-1514 submitted for jack pine regen. [12-18-13] Sale is now closed TCR dtd 10-14-13. Area was scarified by DNR in fall of 2013 at a cost of 2837.04. Area is up for regeneration check in 2017. (3/7/14RH) (RH 7/30/14) 1057 red oak Planted in spring of 2014 under FTP W41-1604 at a cost of \$13106.80. Regen check 2018 passed. Some living Red oak.																																																					
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28	42220 - Natural Jack Pine	Sapling Well	104.9	21	Immature	N/A	Scarified in 2003; jack pine with other species including b.spruce, tamarack, red and white pine. Scattered red and white pine residuals (<10BA).																																															
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30	6122 - Black Spruce	Poletimber Poor	12.9	81	1-50	N/A	Low, wet ground with dense sedge and tall shrubs (alder, willow). Scattered groups of trees with species including b.spruce, tamarack.																																															
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33	42140 - Planted Mixed Pine	Poletimber Well	22.2	26	1-50	N/A	Planted red pine. Some spruce and tamarack on low ground. Higher ground with blueberry, brackenfern and grass; lower ground with shrubs and marsh grasses..																																															
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34	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	13.4	68	51-80	N/A	Low, wet ground with tall shrubs (willow, alder). Mixed stand: tamarack, b.spruce, aspen, b.fir and red and white pine on higher ground.																																																								
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35	42290 - Natural Mixed Pine	Poletimber Well	48.5	25	Immature	N/A	Natural jack pine regeneration, with other species including: b.spruce, aspen, tamarack and white and red pine. Red pine looks as if it was planted, in random high areas.																																																								
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36	6122 - Black Spruce	Poletimber Well	20.6	65	51-80	N/A	Low, wet ground with tall shrubs (alder, willow). Tamarack with aspen, spruce and white pine on ridges.																																																								
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37	42210 - Natural Red Pine	Sawtimber Poor	61.2	90	1-50	N/A	Scattered groups of residual red and white pine. Along M-28. Red pine planted on the ridges; lower ground has natural regeneration (aspen, spruce, jack pine, tamarack, w.pine).																																																								
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38	310 - Herbaceous Openland	Nonstocked	69.2	0	Unspecified	4222 - Natural Jack Pine	10/31/11 bb Stand is on proposal 6-11 Passing Lane Pine, Unit 6 and 7. Residual BA Red Pine 1.2' , white pine 2.2' Retention excluded along marsh edges with paint line. FTP C41-1514 submitted for jack pine regen. [12-18-13] Sale is now closed TCR dtd 10-14-13. 1057 red oak Planted in spring of 2014 under FTP W41-1604 at a cost of \$13106.80 (7/30/14) Passed natural regen check 2018.																																																								
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39	500 - Water	Nonstocked	1.3		Unspecified	No	Small pond.																																																								



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<b>40</b>	42210 - Natural Red Pine	Sawtimber Poor	9.3	88	1-50	N/A	Scattered residual red and white pine. Red pine planted on the ridges; lower ground has natural regeneration (aspen, spruce, jack pine, tamarack, w.pine).																																			
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<b>41</b>	6122 - Black Spruce	Poletimber Poor	12.4	40	1-50	N/A	Stand was planted with red oak saplings according to ftp W41-1604, 2014. 10/31/11 bb Stand is on proposal 6-11 Passing Lane Pine, Unit 1. Residual BA Red Pine .9', white pine .9' Retention excluded along marsh edges with paint line. FTP C41-1514 submitted for jack pine regen. [12-18-13] Sale is now closed TCR dtd 10-14-13. Area was scarified by DNR in fall of 2013 at a cost of 2837.04. Area is up for regeneration check in 2017. (3/7/14RH) 1057 red oak Planted in spring of 2014 under FTP W41-1604 at a cost of \$13106.80 (7/30/14) Regen check done 2018 passed. Most the Oak planted by wildlife has died.																																			
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<b>42</b>	622 - Lowland Shrub	Nonstocked	3.9		Unspecified	No	Low, wet area visible from M-28. Med-tall shrubs (alder, willow, etc).																																			
<b>43</b>	429 - Mixed Upland Conifers	Poletimber Well	42.6	77	111-140	N/A	Mix of jack pine, tamrack and black spruce. Low, wet areas within the stand.																																			
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<b>44</b>	622 - Lowland Shrub	Nonstocked	7.9		Unspecified	No	OPIC - FMD: Low, wet drainage visible from M-28. Mainly marsh grass/sedge with tall shrubs near the edges. Soil type is Deford Muck.																																			
<b>45</b>	622 - Lowland Shrub	Nonstocked	7.7		Unspecified	No	Low, wet drainages. Dense sedges with tall shrubs near the edges.																																			
<b>46</b>	622 - Lowland Shrub	Nonstocked	10.3		Unspecified	No	Low, wet drainages. Dense sedges with tall shrubs.																																			
<b>47</b>	42220 - Natural Jack Pine	Sapling Well	20.1	30	Immature	N/A	Jack pine with some red and white pine. Scattered residual red pine (<10BA).																																			
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<b>48</b>	42290 - Natural Mixed Pine	Poletimber Well	37.9	77	81-110	N/A	Jack pine on higher ground, and b.spruce on lower ground. Scattered white pine, and tamarack.																																										
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<b>49</b>	622 - Lowland Shrub	Nonstocked	54.0		Unspecified	No	OPIC - FMD: Low, wet ground with med-tall shrubs (willow, alder).																																										
<b>50</b>	6122 - Black Spruce	Poletimber Well	1.1	75	51-80	N/A	Small stand within marsh.																																										
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<b>52</b>	42390 - Mixed Non-Pine Upland Conifers	Poletimber Medium	3.6	67	1-50	N/A	Small retention area. Jack pine, b.spruce and tamarack, with scattered large red and white pine. Ridges and low areas.																																										
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<b>53</b>	622 - Lowland Shrub	Nonstocked	7.0		Unspecified	No	Low, wet drainage.																																										
<b>54</b>	622 - Lowland Shrub	Nonstocked	17.7		Unspecified	No	OPIC - FMD: Low, wet drainage. Soil=Kinross-AuGres-Rubicon Complex, 0-15% slopes.																																										
<b>55</b>	6229 - Mixed lowland shrub	Nonstocked	10.9		Unspecified	No	OPIC - FMD: Low, wet drainage visible from M-28. Soil=Deford Muck.																																										
<b>56</b>	622 - Lowland Shrub	Nonstocked	17.3		Unspecified	No	Low, wet ground with tall shrubs (willow, alder). Visible from M-28.																																										
<b>57</b>	6229 - Mixed lowland shrub	Nonstocked	25.0		Unspecified	No	Low, wet ground with tall shrubs (willow, alder). Visible from M-28.																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
<b>58</b>	42210 - Natural Red Pine	Sawtimber Well	8.7	92	51-80	N/A	Scattered groups of residual red and white pine. Red pine planted on the ridges; lower ground has natural regeneration																																									
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<b>59</b>	622 - Lowland Shrub	Nonstocked	3.2		Unspecified	No	Low, wet ground with tall shrubs (willow, alder).																																									
<b>60</b>	6239 - Mixed Emergent Wetland	Nonstocked	119.5		Unspecified	No	Large marsh - sedges and low shrubs, with taller shrubs near the edges. Seasonal ponding.																																									
<b>61</b>	6122 - Black Spruce	Poletimber Well	3.2	75	1-50	N/A	Mix of black spruce scattered white pine, red pine. Mainly low, wet ground with medium to tall shrubs. Continues into C122 s 25 to the north.																																									
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<b>62</b>	623 - Emergent Wetland	Nonstocked	13.4		Unspecified	No	Low, wet ground with seasonally flooded areas. Marsh grass/sedge with alder willow and other shrubs.																																									
<b>63</b>	6239 - Mixed Emergent Wetland	Nonstocked	9.8		Unspecified	No	Low, wet ground with seasonally flooded areas. Marsh grass/sedge with alder willow and other shrubs.																																									
<b>64</b>	623 - Emergent Wetland	Nonstocked	7.0		Unspecified	No	Low, wet ground with seasonally flooded areas. Marsh grass/sedge with alder willow and other shrubs.																																									
<b>65</b>	623 - Emergent Wetland	Nonstocked	116.9		Unspecified	No	Low, wet ground with seasonally flooded areas. Marsh grass/sedge with alder willow and other shrubs.																																									
<b>66</b>	500 - Water	Nonstocked	8.4		Unspecified	No	Pond in marsh.																																									
<b>67</b>	500 - Water	Nonstocked	11.0		Unspecified	No	Pond in marsh.																																									



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<b>68</b>	42290 - Natural Mixed Pine	Sapling Well	16.7	39	1-50	N/A	Mix of jack pine and spruce with tamarack, red and white pine.																																										
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<b>69</b>	42140 - Planted Mixed Pine	Poletimber Well	46.3	26	1-50	N/A	Planted red pine with some jack, spruce and tamarack. Along M-28. Blueberry and brackenfern on higher ground, with medium shrubs on lower ground.																																										
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<b>70</b>	42140 - Planted Mixed Pine	Poletimber Well	13.5	26	1-50	N/A	Adjacent to M-28. Planted red pine, with some spruce, jack pine. A few residual red and white pine.																																										
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<b>71</b>	6229 - Mixed lowland shrub	Nonstocked	59.9		Unspecified	No	Low, wet ground with tall shrubs (alder, willow).																																										
<b>72</b>	42140 - Planted Mixed Pine	Poletimber Well	41.7	26	1-50	N/A	Planted red pine. Higher ground with blueberry, brackenfern and grass; lower ground with shrubs and marsh grasses.																																										
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75	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	32.2	27	Immature	N/A	Low, wet ground with med-tall shrubs (alder, willow). Tamarack with spruce, aspen, white pine.																																												
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76	6229 - Mixed lowland shrub	Nonstocked	2.3		Unspecified	No	Low, wet ground with tall bursh (alder, willow).																																												
77	6122 - Black Spruce	Poletimber Medium	20.2	39	Unspecified	N/A	Mainly b.spruce with jack pine, tamarack, white pine, red maple, and paper birch.																																												
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78	42200 - Natural White Pine	Sawtimber Well	6.1	103	81-110	N/A	Ridge in marsh with red and white pine. Thinned in 1984.																																												
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79	6122 - Black Spruce	Poletimber Medium	7.1	78	51-80	N/A	Tamarack, spruce and aspen. Surrounded by low, wet ground; wet areas within stand.																																												
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80	6121 - Tamarack	Poletimber Well	7.4	78	1-50	N/A	Surrounded by marsh.																																													
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81	42110 - Planted Red Pine	Sapling Well	8.0	26	1-50	N/A	Planted red pine. Higher ground with blueberry, brackenfern and grass; lower ground with shrubs and marsh grasses.																																													
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82	6239 - Mixed Emergent Wetland	Nonstocked	88.5		Unspecified	No	Low, wet drainages. Marsh grass/sedges and low shrubs, with tall shrubs near the edges. Seasonal ponding.																																													
83	42210 - Natural Red Pine	Sawtimber Well	3.4	85	1-50	N/A	Red and white pine mainly on higher ground, with tamarack, spruce and aspen. Surrounded by low, wet ground; wet areas within stand.																																													
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84	500 - Water	Nonstocked	7.1		Unspecified	No	Pond in marsh.																																													
85	42210 - Natural Red Pine	Sawtimber Well	2.8	93	81-110	N/A	Very difficult access. Island in the marsh, would need to cross a large drainage ditch to access.																																													
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<b>87</b>	42210 - Natural Red Pine	Sawtimber Well	1.1	95	81-110	N/A	Very difficult access.																																					
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<b>88</b>	6239 - Mixed Emergent Wetland	Nonstocked	11.7		Unspecified	No	Low, wet drainage. Marsh grass/sedges and low shrubs, with tall shrubs near the edges. Seasonal ponding.																																					
<b>89</b>	623 - Emergent Wetland	Nonstocked	12.0		Unspecified	No	Marsh with sedges and low shrubs, and taller shrubs near the edges.																																					
<b>90</b>	622 - Lowland Shrub	Nonstocked	8.6		Unspecified	Managed Opening	Powerline. Generally low, wet ground.																																					
<b>91</b>	122 - Road/Parking Lot	Nonstocked	15.7		Unspecified	No	OPIC - FMD: M-28 R.O.W.. [6/20/06 km] FTP#W41-1296 agreed to at 2007 compartment review.																																					
<b>92</b>	42120 - Planted Jack Pine	Poletimber Well	13.0	26	111-140	N/A																																						
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