



# Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42031

Entry Year 2019

Acreage: 2,331

County Luce

Management Area: Deer Park

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**Revision Date:** 2017-08-16

**Stand Examiner:** Don Kuhr

**Legal Description:**

T49N R10W Sections 22-27, 29 32

T48N R10W Section 5

**Identified Planning Goals:**

Fisheries, wildlife and timber and are the main uses of this area. The goal is to manage for all of these simultaneously and to provide, enhance and perpetuate their uses through proper management. Forest treatments prescribed will help ensure the sustainability of the forest resource and continue to enhance the quality of the wildlife habitat. Any timber management adjacent to the Two Hearted River will follow the guidelines set forth in the Two Hearted River Natural River Plan.

**Soil and topography:**

The dominant soil type of the compartment is Rubicon sand. The main cover type found on this soil is various mixes of red, white and jack pine with components of paper birch, aspen, red maple, spruce and balsam. Lesser components of Wallace sand are found in places along the Dawson Creek within the compartment, supporting a cover type of northern hardwoods. Croswell/Deford sand complex and Carbondale, Lupton and Tawas muck soils are found within the Two Hearted River corridor. The overall topography of the compartment is mostly level to slightly rolling with some ridges having relatively steep sides. The riparian areas are fairly deep with steep side hills especially in the Two Hearted River corridor. The area in Section 22 of this compartment adjacent to the Two Hearted River is known as the High Banks.

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

The main portion of the compartment is surrounded by State land on the north, east and south sides with the west side being private corporate land. The isolated parcels west of County Road 414 are surrounded by a combination of private corporate land, Nature Conservancy Land and private land. Predominate land use in the area is hunting, fishing, canoeing, ORV and snowmobile riding, berry picking, wildlife/nature viewing and timber production.

**Unique Natural Features:**

Unique features of the compartment include The Two Hearted River and its tributaries, the Dawson Creek and Wabash Creek. Another unique feature of the compartment would be Chris Brown Lake. MNFI lists other features such as the following; potential for loon, great blue heron rookery, spruce grouse, eagle, osprey, merlin and goshawk; potential for moose and wolf; potential for wood turtle and Blanding's turtle; potential for incurvate emerald and ebony boghaunter in boggy areas; potential for pine drops, climbing fumitory, false violet in pines and Canada rice-grass possible in jack pine openings; potential for sweet coltsfoot, Wiegand's sedge, northern prostrate clubmoss, fir clubmoss, English sundew, round-leaved orchis, black crowberry, yellow pitcher plant, and panicked screwstem in bogs and open wetlands.

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

The Bureau of History does not list any historical features.

**Special Management Designations or Considerations:**

The Two-Hearted River has been designated as a Natural River, and thus has special management guidelines to follow. The Two Hearted River Natural River Plan is in place and management guidelines have been established for timber management within this zone. Stands within the boundaries of the Natural River Zone have been designated as a High Conservation Value Area (HCVA). Management decisions shall be dictated by the promotion and enhancement of the desired characteristics associated with the natural river zone. Any prescribed treatments that take place near the Two Hearted River will also incorporate BMP guidelines.

**Watershed and Fisheries Considerations:**

Fisheries Values: Excellent

Fisheries Concerns: Dawson Creek is classified as Type 1 trout, with a good population of brook trout. The Two Hearted River, a Natural River borders the northern edge of this compartment and is protected with special zoning requirements.

Stands along Wabash Creek border another Type 1 trout stream, not actively managed but sustaining a natural brook trout

population. Chris Brown Lake is also present in this compartment. All treatments in stands lying within the Natural River management zone need to adhere to guidelines of the Two Hearted River Natural River Plan. All other stands with treatments should follow standard BMPs.

### **Wildlife Habitat Considerations:**

Compartment 31 lies in the far northern portion of Luce county and is in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection. The compartment is in the Deer Park Management Area and American marten, Kirtland's warbler, Piping plover, and red crossbill are featured species. The vegetation is primarily white and red pine with a few aspen stands and a few lowland types along lakes or bogs in the compartment. Diversity of tree species in the red pine stands is fairly poor and slightly better in white pine stands. Overall, pre-settlement vegetation patterns appear to have been similar to the current landscape of this compartment.

In a predominantly pine forested ecosystem, maintaining a variety of age and size classes and maintaining as much structural diversity as possible in managed stands will be important to achieving wildlife objectives. For example, retaining soft and hard mast producing species in red pine harvests will help provide food sources, nest, and den trees, and improve structural diversity. Leaving understory spruce and hemlock will likewise increase structural diversity. Wildlife species potentially using this compartment include white-tailed deer, black bear, gray wolves, coyote, otter, fisher and marten.

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

An active sand/gravel pit is located in Section 29, and there may be additional sand and gravel potential within the compartment. There is no known metallic mineral potential in this area, and there is no known potential for economic oil and gas production in the UP.

### **Vehicle Access:**

The compartment is located in northern Luce County and can be accessed via County Road 414. The Chris Brown Lake Road leads off of County Road 414, is a good dirt road and borders a large portion of the compartment. The High Banks Trail, as well as several other small two tracks (approximately 5 miles), give additional access to the compartment. In addition to the two tracks, there are several old and abandoned roads within the compartment that were used to access the compartment for logging in the past. There are several roads on the surrounding private land that range from good to abandoned that offer close access to the compartment as well.

### **Survey Needs:**

E1/16 between sections 5 and 8, T48N R10W; there is a wood post located here already that has been historically used by landowners in the area. Not registered, but it looks to be fairly accurate.

### **Recreational Facilities and Opportunities:**

Recreational opportunities include hunting, fishing, canoeing, hiking, berry picking and wildlife viewing. Trail 9 of snowmobile system crosses through the center of the compartment. There are a few remote "unofficial" camping sites along the Chris Brown Lake shoreline on the east and north sides of the lake. There are a number of hunting camps on private land adjacent to the compartment boundary.

### **Fire Protection:**

Large fire runs are possible in the continuous pine stands in the large portion. Private property outside this portion could be at risk to large fires. The remote parts of this compartment pose little risk for large fires because of primarily hardwoods fuel types. Modified suppression tactics may need to be considered in the Two Hearted River Area. Road access through the compartment is good providing some opportunities for fire lines if needed.

### **Additional Compartment Information:**

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

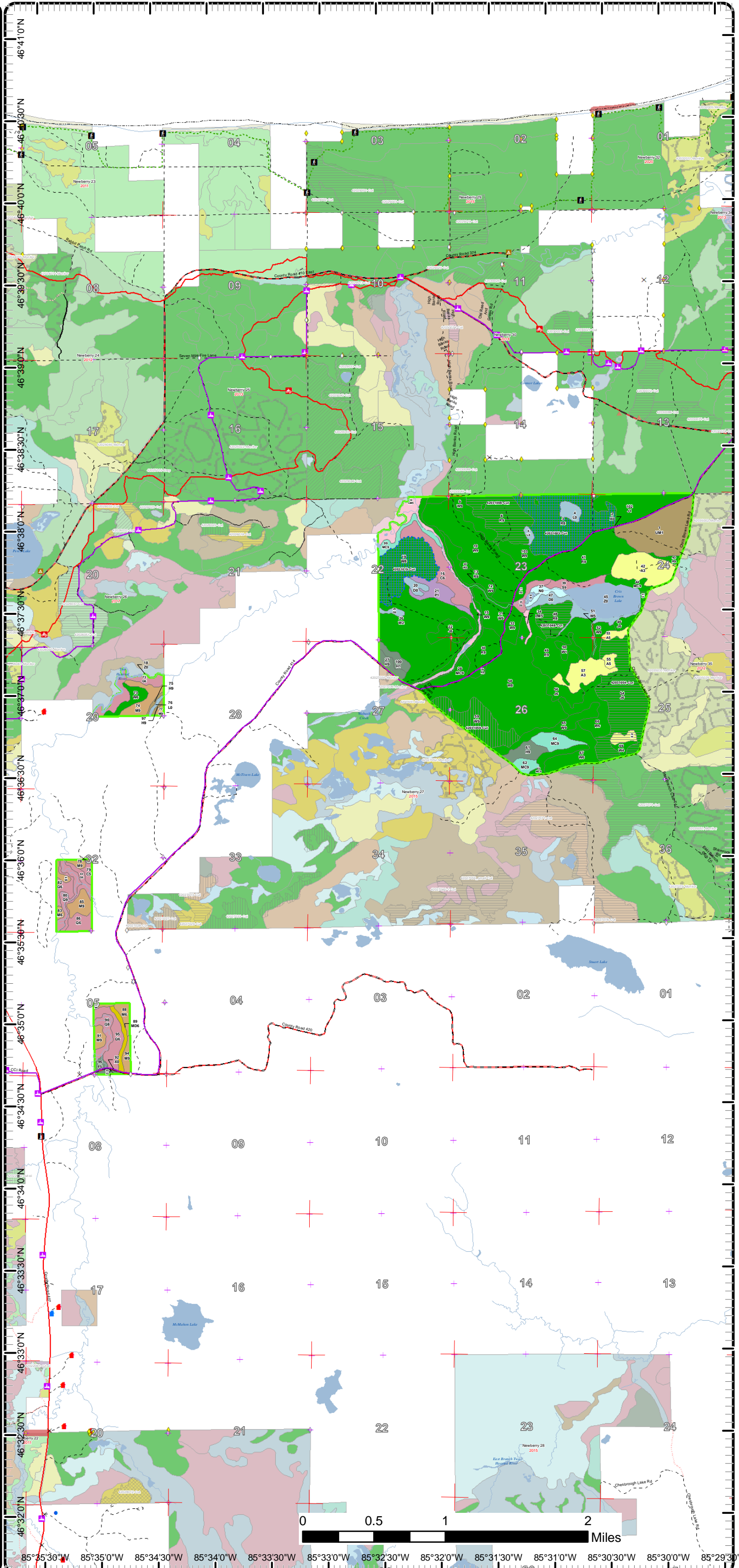
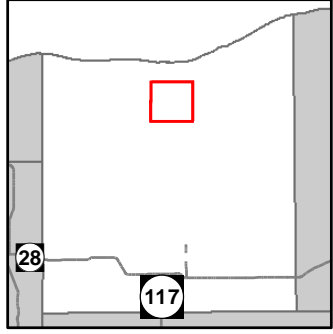
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

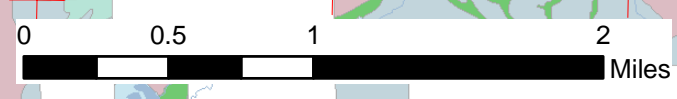
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 31  
 T49N, R10W, Sec. 22-27, 29, 32  
 T48N, R10W, Sec. 5  
 County: Luce  
 Unit: Newberry  
 Mgmt Area: Deer Park  
 YOE: 2019  
 Acres: 2330.6 GIS Calculated  
 Examiner: Don Kuhr  
 Map Revised: 12/12/2017  
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- Counties
- × Gate
- Cabin
- ▲ Campground
- ▣ ORV Trails
- ▣ Snowmobile Trails
- Designated ATV
- Designated Snowmobile Trails
- County Paved Roads
- County Gravel Roads
- Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
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- 612 - Lowland Coniferous Forest
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- 623 - Emergent Wetland
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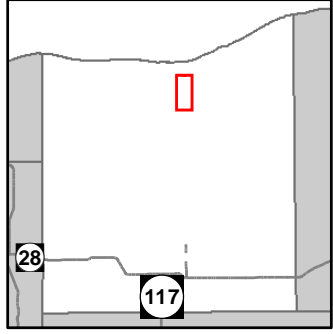


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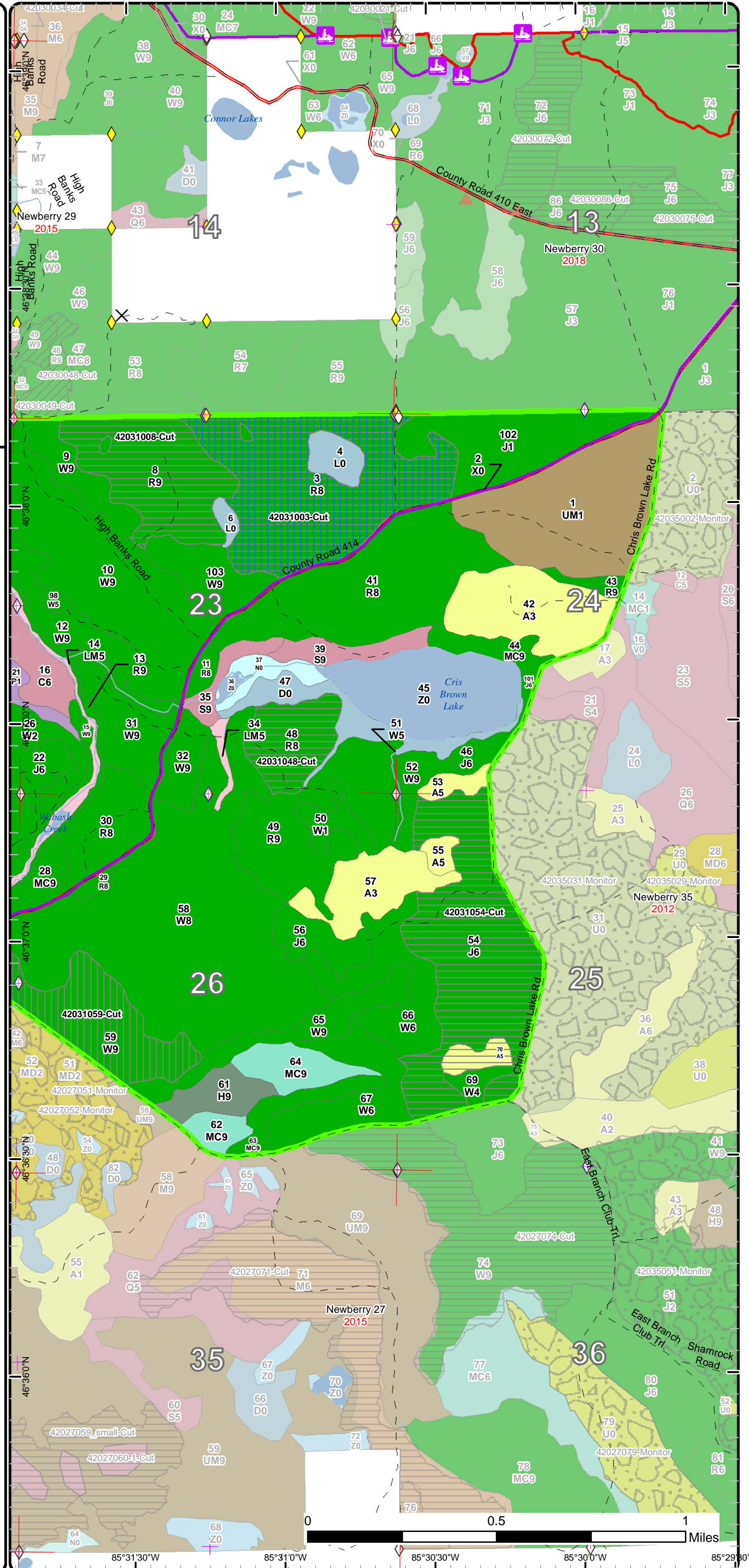


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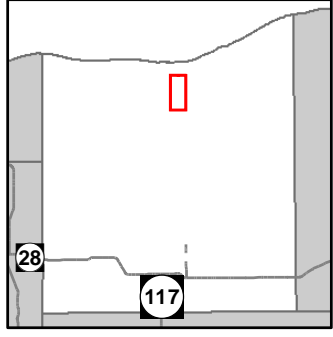
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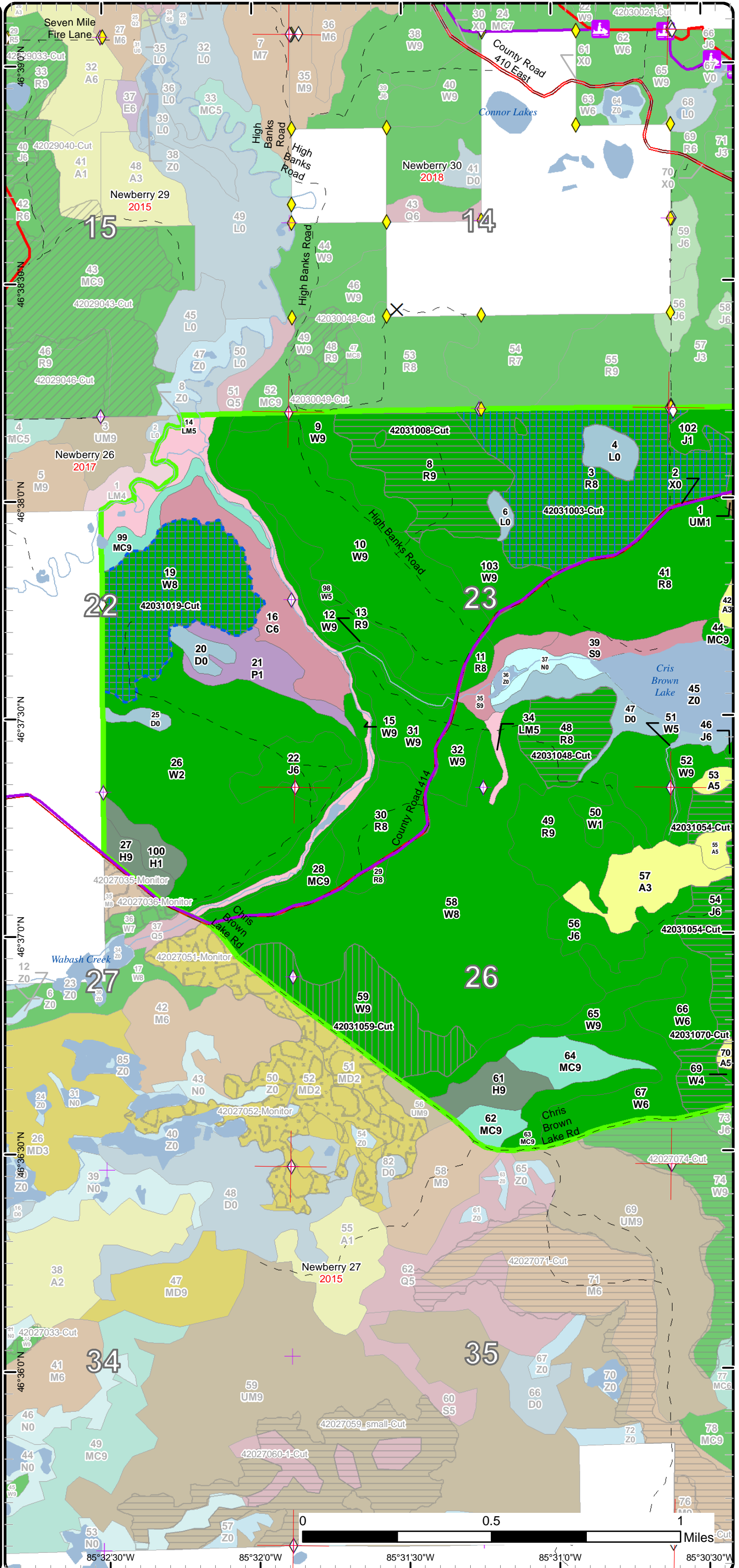
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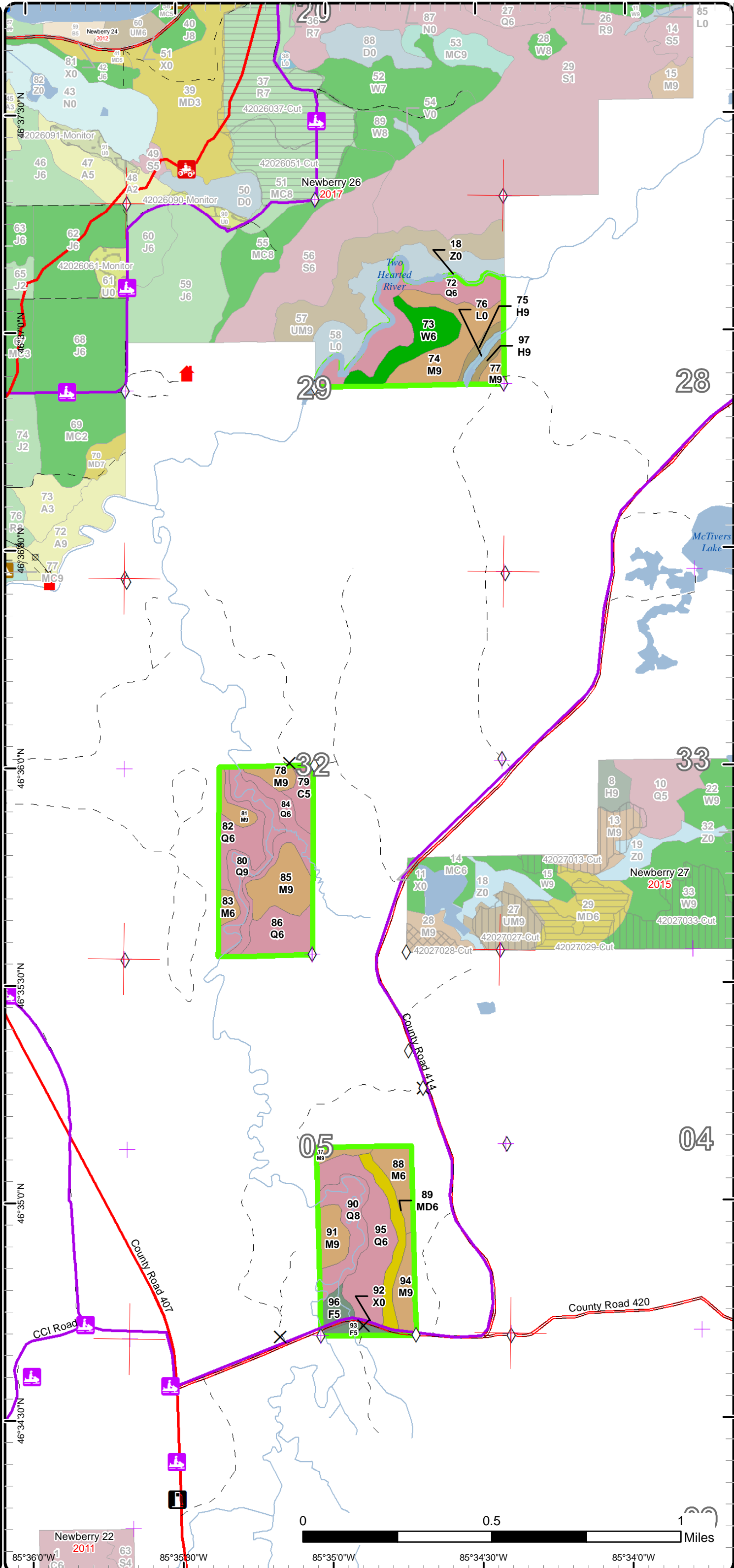
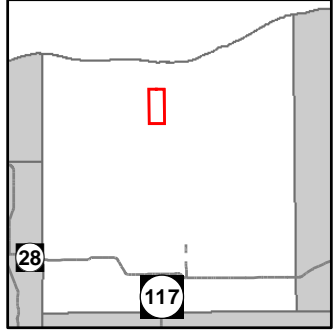
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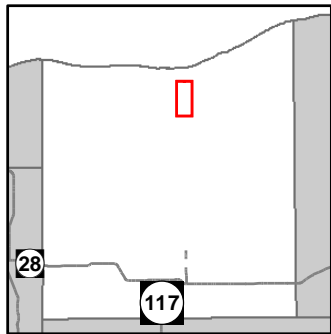
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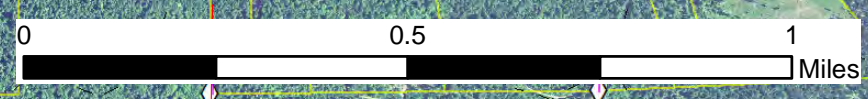
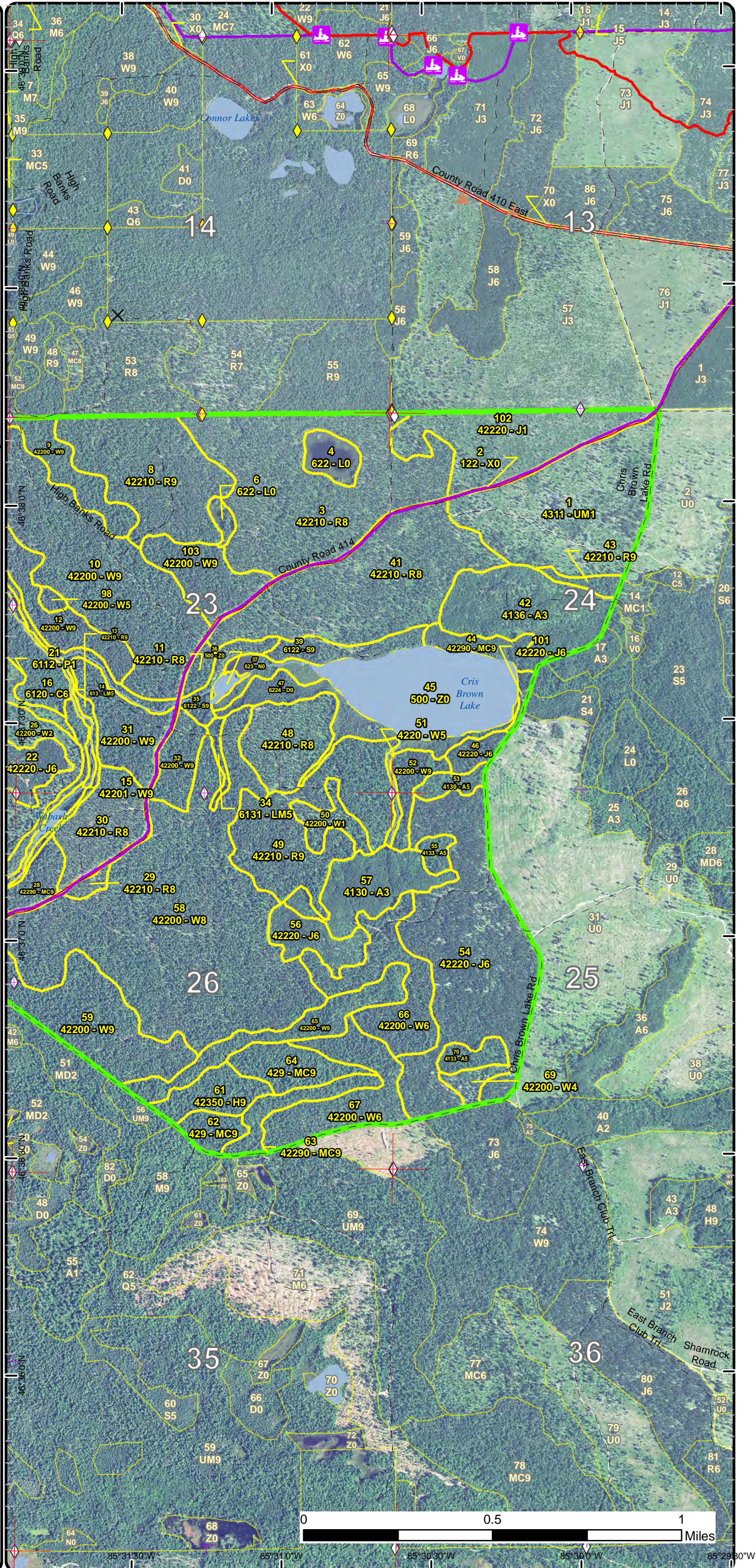


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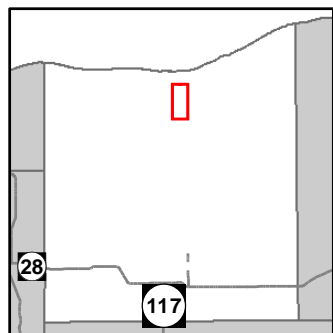


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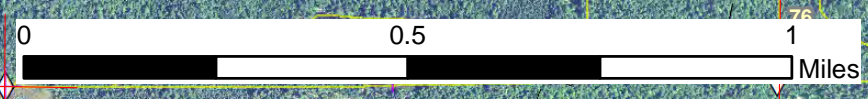
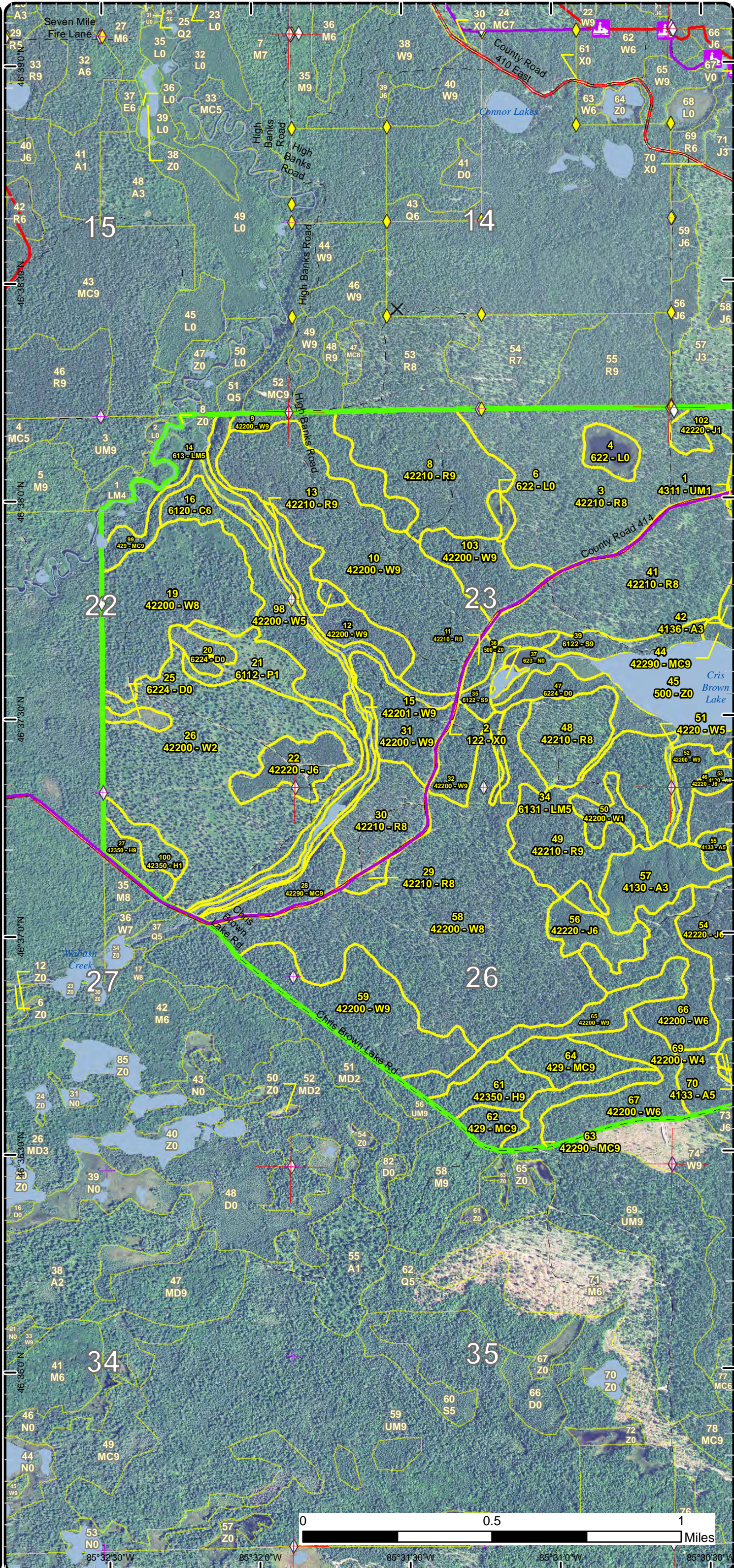


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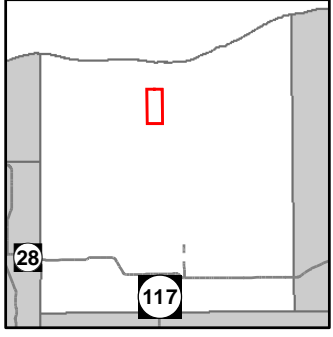


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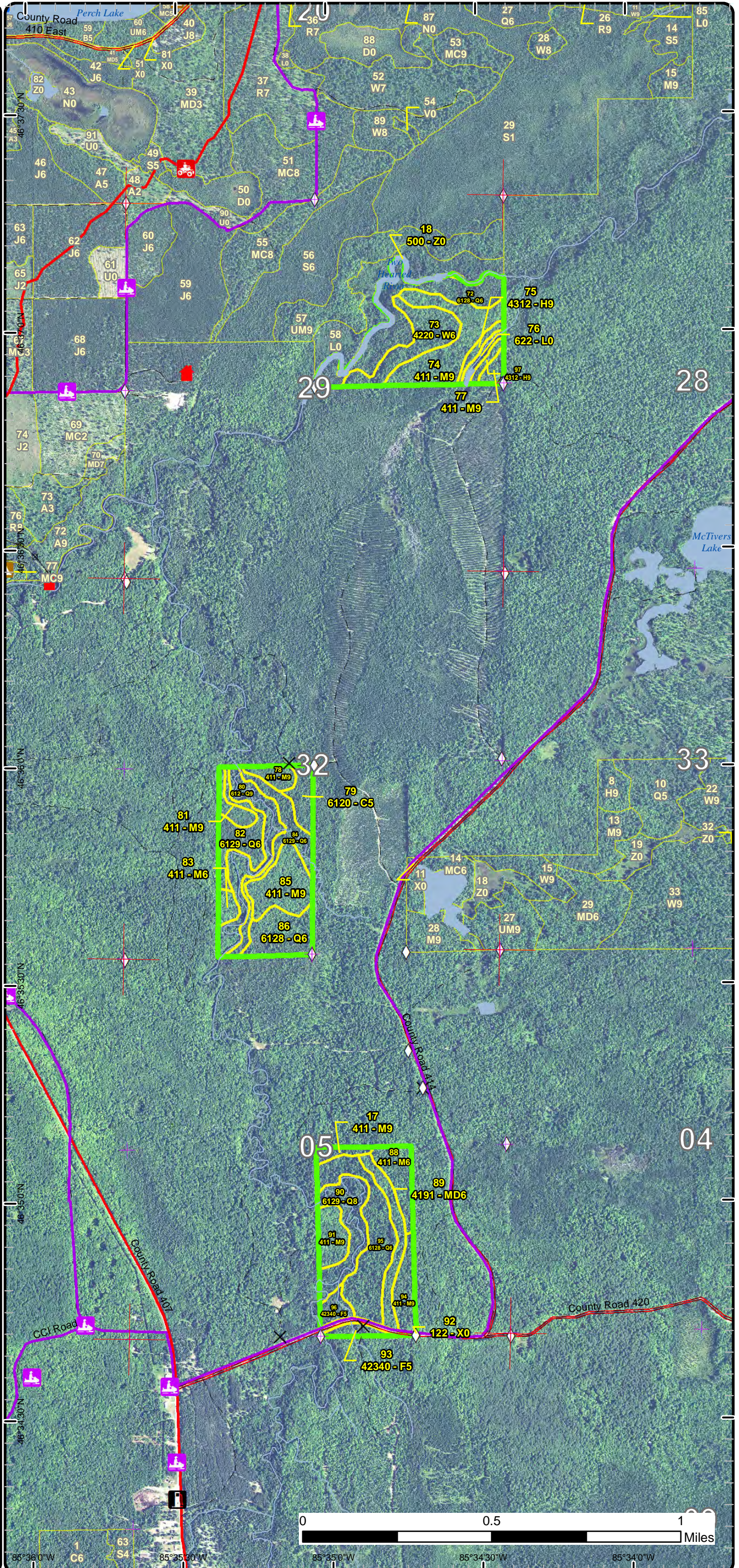


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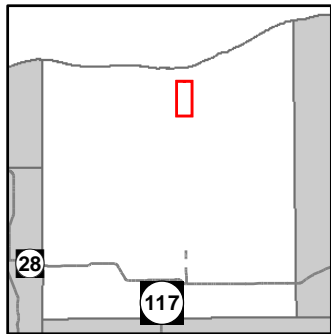
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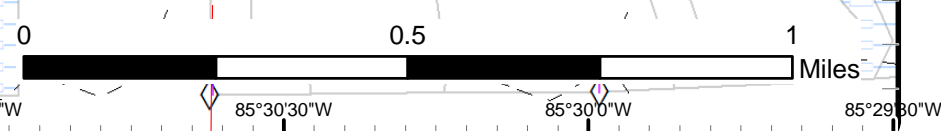
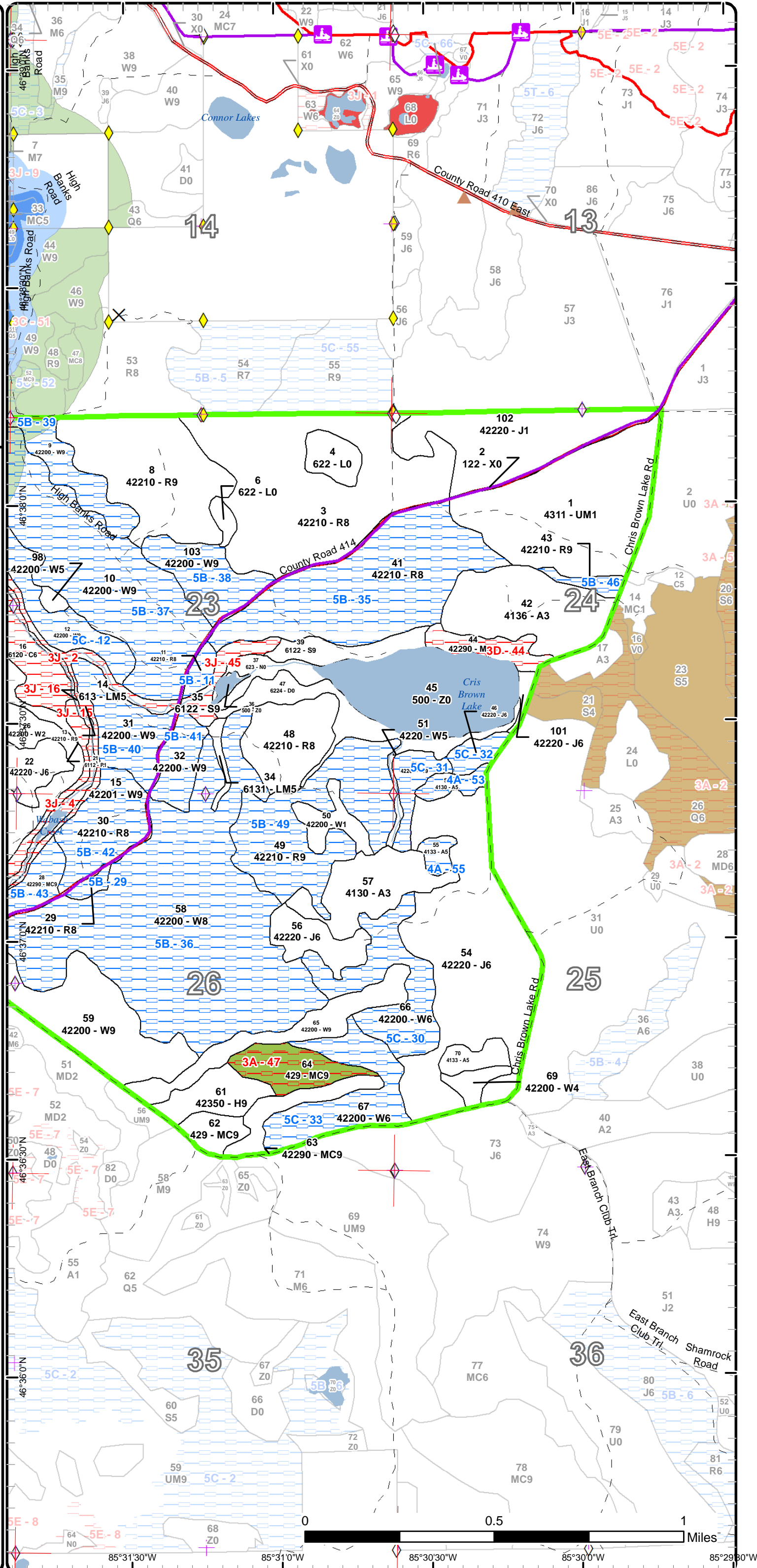


# Special Conservation Areas & Site Conditions Map

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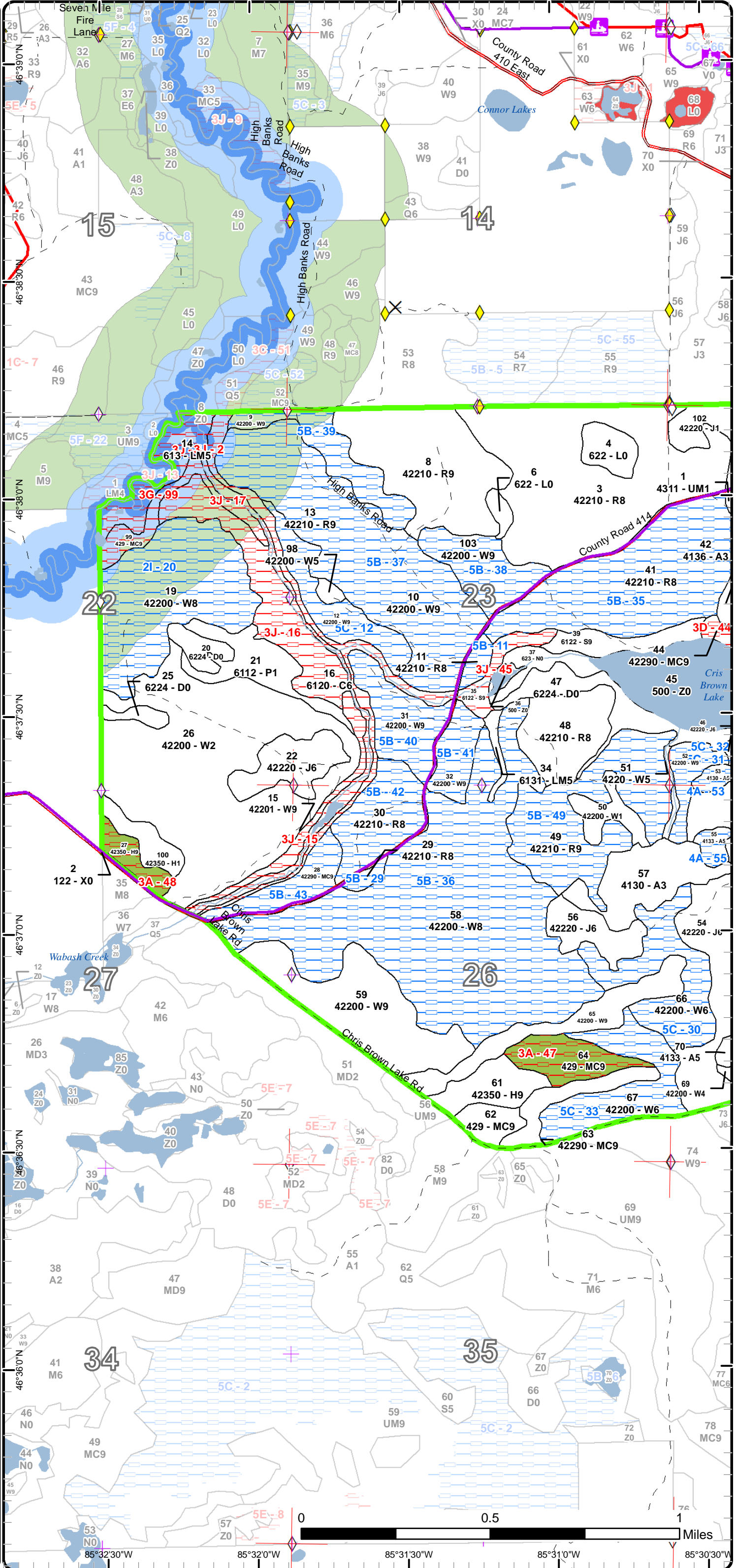
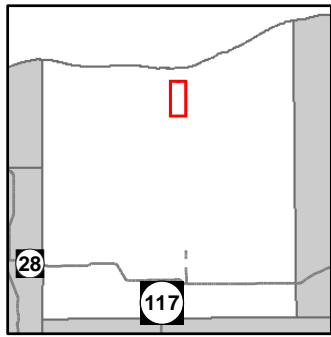
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- Available w/ Constraints
- Unavailable
- 4A: No Markets Available for these Forest Products
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Forest Habitat Core Interior
- Cold Water Streams
- Cold Water Lakes
- Verified Type 2 Old Growth
- Recreational/Scenic Value Area



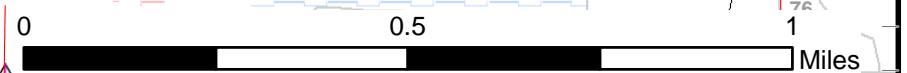


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- 2I: Survey needed
- 4A: No Markets Available for these Forest Products
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
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- Verified Type 2 Old Growth
- Recreational/Scenic Value Area

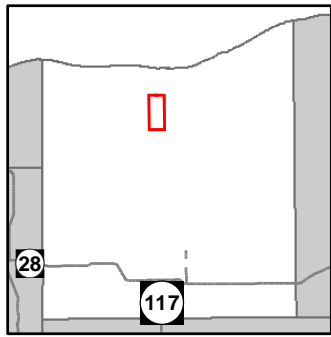


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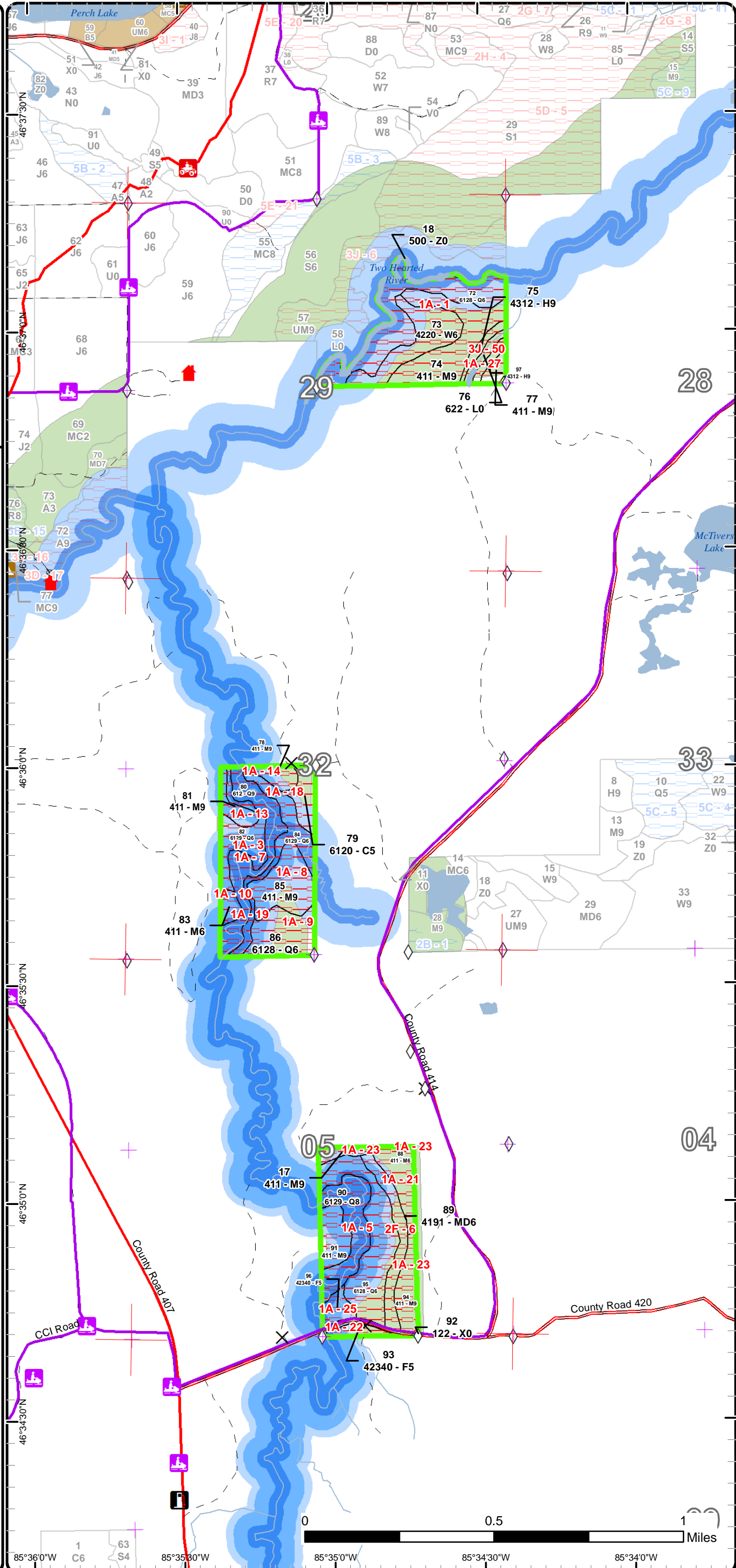


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- 1A: Federal/State/Local Law
- 2F: Too steep
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- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- State Forest Campground
- Recreational/Scenic Value Area





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	81	0	0	8	11	0	0	0	0	0	0	0	0	0	0	99
Cedar	0	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	6	46
Hemlock	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	40
Jack Pine	0	0	53	38	0	0	0	128	0	0	0	0	0	0	0	0	0	0	219
Lowland Aspen/Balsam Poplar	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Lowland Conifers	0	0	0	0	0	0	0	0	0	39	0	23	0	0	0	0	0	49	111
Lowland Mixed Forest	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	36	39
Lowland Shrub	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	14	23
Marsh	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	14	43
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	72
Red Pine	0	0	0	0	0	0	0	0	0	0	245	170	0	0	0	0	0	23	437
Treed Bog	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	42
Upland Mixed Forest	0	0	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88
Upland Spruce/Fir	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6
Urban	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Water	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62
White Pine	0	0	153	11	0	0	2	42	0	2	24	584	11	0	0	0	24	43	896
<b>Total</b>	<b>137</b>	<b>22</b>	<b>304</b>	<b>130</b>	<b>0</b>	<b>0</b>	<b>19</b>	<b>181</b>	<b>0</b>	<b>41</b>	<b>269</b>	<b>855</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>338</b>	<b>2329</b>





## Report 2 – Treatment Summary

Newberry Mgt. Unit

Year of Entry: 2019

Compartment 31

Total Compartment Acres: 2,331

### Acres of Harvest

Commercial Harvest - 394

Harvests with Site Condition - 78

Next Step Harvest - 117

Habitat Cut - 117

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	8	0	0	0	0	0	0	0	0	8
Jack Pine	118	0	0	0	0	0	0	0	0	118
Red Pine	94	0	0	117	0	0	0	0	0	211
White Pine	0	0	0	78	57	0	0	0	0	135
<b>Total</b>	<b>220</b>	<b>0</b>	<b>0</b>	<b>195</b>	<b>57</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>472</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	472	0	0	0	0	0	0	0	0	472
Next Step	117	630	329	0	0	0	1097	0	0	2173
<b>Total</b>	<b>590</b>	<b>630</b>	<b>329</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1097</b>	<b>0</b>	<b>0</b>	<b>2646</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
3	42031003-Cut	117.3	42210 - Natural Red Pine	Sawtimber Medium	97	81-110	Harvest	Seed Tree with Retention	4310 - Pine, Oak Mix	Two-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Mark to 40 residual BA of a mix of existing species. Leave all oak.											
<u>Specs:</u>											
<u>Next Step</u> SitePrep, Scarification; Harvest, Clearcut with Retention; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Natural Regen											
<u>Treatments:</u> (Intermediate); Monitoring, Natural Regen (Re-Inventory); Monitoring, Artificial Regen(1yr); Monitoring, Artif											
<u>Acceptable</u> red pine, white pine, oak											
<u>Regen:</u>											
<u>Other</u> scarify after harvest during a good seed year.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
8	42031008-Cut	64.1	42210 - Natural Red Pine	Sawtimber Well	102	111- 140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> clearcut with retention. Leave retention around lowland pockets.											
<u>Specs:</u>											
<u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)											
<u>Treatments:</u>											
<u>Acceptable</u> Red Pine											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
19	42031019-Cut	78.0	42200 - Natural White Pine	Sawtimber Medium	108	51-80	Harvest	Seed Tree with Retention	42260 - Natural Pine, Mixed Deciduous	Two-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition: Survey Needed</b>								
<u>Prescription</u> Clear cut to 20 BA residual. Avoid damage to advanced regeneration. Leave Hemlock											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> any mix of existing species											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
48	42031048-Cut	29.9	42210 - Natural Red Pine	Sawtimber Medium	107	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Clear cut with retention. leave retention along lowland edge.											
<u>Specs:</u>											
<u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)											
<u>Treatments:</u>											
<u>Acceptable</u> Red Pine											
<u>Regen:</u>											
<u>Other</u>											
<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
54	42031054-Cut	118.0	42220 - Natural Jack Pine	Poletimber Well	62	51-80	Harvest	Clearcut with Retention	42220 - Natural Jack Pine	Even-Aged	Draft Field Boundary

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

Prescription clearcut when stand across road meets green up requirements.

Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial  
Treatments: Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Jack pine, red pine, oak, white pine, aspen  
Regen:

Other Retention can be mix of scattered trees and or patches. Leave scattered red and white pine.

Comment:

Proposed Start Date: 10/01/2023

59	42031059-Cut	57.4	42200 - Natural White Pine	Sawtimber Well	102	81-110	Harvest	Shelterwood with Retention	429 - Mixed Upland Conifers	Two-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Harvest to a residual BA of 40. Leave mix of species found in canopy. Leave hemlock and scattered large diameter white pine for bear.

Specs:

Next Step SitePrep, Scarification

Treatments:

Acceptable any mix of species found in the canopy during harvest.  
Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

70	42031070-Cut	7.7	4133 - Aspen, Mixed Pine	Poletimber Medium	57	51-80	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clear cut leaving edge or scattered tree retention. Harvest with stand 54 after stand across road meets green up requirements.

Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, white pine, jack pine, red pine  
Regen:

Other Leave scattered red and white pine

Comment:

Proposed Start Date: 10/01/2023

**Total Treatment  
Acreage Proposed: 472.4**



## Report 4 – Site Conditions

Newberry Mgt. Unit

Don Kuhr : Examiner

Compartment: 31

Year of Entry: 2019

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions											
		With Condition				2I	4A	5B	5C	1A	2F	3A	3D	3G	3J		
99	88	11	0		Aspen		11										
46	0	0	46		Cedar					6							40
40	27	0	13		Hemlock					4		9					
218	211	7	0		Jack Pine				7								
22	22	0	0		Lowland Aspen/Balsam Poplar												
110	0	0	110		Lowland Conifers					110							
40	3	0	36		Lowland Mixed Forest												36
16	14	0	2		Lowland Shrub												2
23	14	0	9		Lowland Spruce/Fir												9
10	10	0	0		Marsh												
9	0	0	9		Mixed Upland Deciduous						9						
43	14	17	12		Natural Mixed Pines			17					12				
72	0	0	72		Northern Hardwood					72							
438	213	202	23		Red Pine			202									23
36	36	0	0		Treed Bog												
42	9	0	33		Upland Conifers							19		9			5
88	88	0	0		Upland Mixed Forest												
6	0	0	6		Upland Spruce/Fir					6							
13	13	0	0		Urban												
62	62	0	0		Water												
897	261	611	25		White Pine	78		422	111	14							11
2,331	1,085	848	398		Total Forested Acres	78	11	640	118	213	9	28	12	9			127
	47%	36%	17%		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	1A: Federal/State/Local Law	59	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural Rivers Act, buffer to Two Hearted River							



## Report 4 – Site Conditions

Newberry Mgt. Unit  
Don Kuhr : Examiner

Compartment: 31  
Year of Entry: 2019

2	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	23	2F: Too steep	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
<b>Comments:</b> River corridor. Evaluated for SBW.							
3	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural Rivers Act, buffer to Dawson Creek tributary to Two Hearted River							
4	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	36	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	45	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural Rivers Act, buffer to Dawson Creek tributary of the Two Hearted River							
6	<b>Unavailable</b>	<b>2F: Too steep</b>	9	1A: Federal/State/Local Law	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
<b>Comments:</b> Part of Two Hearted River Zone. Evaluated for SBW.							
7	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural Rivers Act, buffer to Dawson Creek tributary to Two Hearted River							



## Report 4 – Site Conditions

Newberry Mgt. Unit  
Don Kuhr : Examiner

Compartment: 31  
Year of Entry: 2019

8	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural Rivers Act, buffer to Dawson creek tributary to Two Hearted River							
9	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural Rivers Act, buffer to Dawson Creek tributary of the Two Hearted River							
10	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural Rivers Act, buffer to Dawson Creek tributary of the Two Hearted River							
11	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural Rivers Act, buffer to Dawson Creek tributary of the Two Hearted River							



## Report 4 – Site Conditions

Newberry Mgt. Unit  
Don Kuhr : Examiner

Compartment: 31  
Year of Entry: 2019

14	Unavailable	1A: Federal/State/Local Law	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural Rivers Act, buffer to Dawson Creek tributary of the Two Hearted River							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	40	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	2E: Road needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Unavailable	1A: Federal/State/Local Law	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural Rivers Act, buffer to Dawson Creek tributary of the Two Hearted River							
19	Unavailable	1A: Federal/State/Local Law	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural Rivers Act, buffer to Dawson Creek tributary of the Two Hearted River							
20	Available	2I: Survey needed	78	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Verify against Hancock land and Two Hearted Dawson Creek land.							



Report 4 – Site Conditions

Newberry Mgt. Unit  
Don Kuhr : Examiner

Compartment: 31  
Year of Entry: 2019

21	Unavailable	1A: Federal/State/Local Law	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural Rivers Act, buffer to Dawson Creek tributary of the Two Hearted River							
22	Unavailable	1A: Federal/State/Local Law	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural Rivers Act, buffer to Dawson Creek tributary of the Two Hearted River							
23	Unavailable	1A: Federal/State/Local Law	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural Rivers Act, buffer to Dawson Creek tributary of the Two Hearted River							
25	Unavailable	1A: Federal/State/Local Law	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural Rivers Act, buffer to Dawson Creek tributary of the Two Hearted River							
27	Unavailable	1A: Federal/State/Local Law	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural Rivers Act, buffer to Dawson Creek tributary of the Two Hearted River							
29	Available	5B: Maintain for regeneration purposes	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Newberry Mgt. Unit  
Don Kuhr : Examiner

Compartment: 31  
Year of Entry: 2019

30	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	40	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Harvest when stand across the road has greened up.							
31	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Harvest when stand across the road has greened up.							
32	<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> Harvest when stand across the road has greened up.							
33	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	36	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Harvest when stand across the road has greened up.							
35	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	94	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
36	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	215	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



**Report 4 – Site Conditions**

Newberry Mgt. Unit  
Don Kuhr : Examiner

Compartment: 31  
Year of Entry: 2019

37	Available	5B: Maintain for regeneration purposes	116	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
38	Available	5B: Maintain for regeneration purposes	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
39	Available	5B: Maintain for regeneration purposes	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
40	Available	5B: Maintain for regeneration purposes	27	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
41	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
42	Available	5B: Maintain for regeneration purposes	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Newberry Mgt. Unit  
Don Kuhr : Examiner

Compartment: 31  
Year of Entry: 2019

43	Available	5B: Maintain for regeneration purposes	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
44	Unavailable	3D: Recreational / Scenic values	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
45	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
46	Available	5B: Maintain for regeneration purposes	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
47	Unavailable	3A: Conservation Values incompatible with harvest at this time	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> type 2 old growth							
48	Unavailable	3A: Conservation Values incompatible with harvest at this time	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Newberry Mgt. Unit  
Don Kuhr : Examiner

Compartment: 31  
Year of Entry: 2019

49	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	65	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
50	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
53	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
55	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
99	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	9	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							





**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
	Type 1 or Type 2 Old Growth	Verified Type 2 Old Growth Area	<b>Proposed SCA</b>	
<b>Comments</b> Meets Old Growth criteria				
	Type 1 or Type 2 Old Growth	Verified Type 2 Old Growth Area	<b>Proposed SCA</b>	
<b>Comments</b> Meets old growth criteria				



**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Type 1 and Type 2 Old Growth	Old-Growth forest (also termed primary forest, ancient forest, virgin forest, or primeval forest) is an area of forest that has few or no signs of human disturbance and that exhibits unique ecological features related to age, composition and associated structure. Old growth forests are of natural origin. They may be dominated by late successional forest species (i.e. sugar maple and American beech), or may be a very old example of a stand dominated by long-lived early- or mid-seral species (i.e. oak, or red pine).
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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4311 - Pine, Aspen Mix	Sapling Poor	88.0	16	Immature	OPIC - FMD: Stand was harvested in 2001; T.Sale#012-99. Scattering of oak and white pine left from the sale. Jack pine regen is catching up with the aspen. some white pine filling in, oak regen being browsed. ***Regen survey was completed in May, 2005: FTP 42-497 shows 370 t/ac JP, a few R,W and 445 t/ac RM and A.
3	42210 - Natural Red Pine	Sawtimber Medium	117.9	97	81-110	OPIC - FMD: Natural stand of pine, mostly sawlog sized. Some large diameter RP/WP 16-24" DBH. Some red pine has utility pole quality. Regen is mostly w.pine, some r.pine and b.fir as well. Sale harvested via selection harvest as sale #024-09-01, "Compartment 31 Red Pine". Completed 12/21/12. Regeneration check needed according to work instructions.
8	42210 - Natural Red Pine	Sawtimber Well	64.8	102	111-140	OPIC - FMD: Very nice natural pine stand. Stand was treated in 2000; T.sale#039-99. It is mostly a sawlog sized RP/WP stand. Some red pine is utility pole quality. The white pine is decent but not stellar quality. Regen varies with WP/R.maple/b.fir/spruce, thick and thin, 3-15' tall..
9	42200 - Natural White Pine	Sawtimber Well	24.0	150	51-80	Stand is a mixed bag, thick and thin with WP/RP, p.birch, oak, r.maple, spruce and balsam.. Thick reproduction of mostly balsam fir but other species as well (pine, spruce, p.birch, r.maple). Most of stand is part of an old timber harvest. A portion of the stand falls in the Two Hearted Natural River Zone.
10	42200 - Natural White Pine	Sawtimber Well	116.4	102	51-80	OPIC - FMD: Stand was thinned in 2000; t.sale#039-99. Mostly sawlog sized red and white pine now. B.fir, spruce, r.maple, red and white pine understory. Nice looking stand.
11	42210 - Natural Red Pine	Sawtimber Medium	4.6	102	1-50	OPIC - FMD: Stand was cut in 2000; t.sale#039-99. Mostly sawlog sized red and white pine now. Aspen, B.fir, spruce, r.maple, red and white pine understory.
12	42200 - Natural White Pine	Sawtimber Well	24.2	97	81-110	OPIC - FMD: Nice stand of pine, both red and white pine. R.pine is utility pole quality. Stand is situated on a flat level area adjacent to Wabash Creek but in a lower area relative to surrounding stands. There is a pocket of jack pine ~1 acre in size in the SW end of stand, too small to type out. Treat with adjacent stand to east when that is treated.
13	42210 - Natural Red Pine	Sawtimber Well	23.3	102	81-110	OPIC - FMD: Stand is along the east flank of the Wabash Creek and along the flanks of Chris Brown Creek. Most of the stand is inaccessible to logging due to topography, BMP issues and influence zone set backs. Stand is variable with timber, mostly conifer type W/H/Q with some r.maple/y.birch/p.birch mixed throughout. 99= 10,03,04.
14	613 - Lowland Mixed Forest	Poletimber Medium	36.4	100	1-50	OPIC - FMD: Lowland type flanking Wabash Creek. Mostly lowland conifers growing throughout stand along edges. Open marsh beaver dams in areas. Beaver activity up and down creek starting at County Road 414.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	10.8	112	51-80	OPIC - FMD: Stand flanks the Wabash Creek. Some areas are a steep side hill on the creek edge, others are level to rolling. Some large diametered RP and WP in here. WP is pretty limby, RP has height and some quality. Scattered JP, cedar, r.maple, p.birch and aspen. Most of stand would be inaccessible due to topography, BPP issues and influence zone set backs.
16	6120 - Lowland Cedar	Poletimber Well	40.1	104	81-110	OPIC - FMD: Stand is a mixed bag of species, mostly conifers. Topography is variable, rolling with intermittent drainages that lead towards the Wabash Creek. W/H/C/Q with E/B. Some areas are low/poorly drained, others areas are on side hills. Influence zone of Wabash Creek. Some large diametered cedar in here. 98=31,21,20,32,39.
17	411 - Northern Hardwood	Sawtimber Well	2.5	100	51-80	OPIC - FMD: Stand is mostly large diametered, overmature, poor quality hardwoods. Western edge of stand is thick with balsam fir understory. W.spruce/hemlock regen present. Beech has scale, nearly dead. Two Heart River plan requires a minimum BA of 70 in the area the stand is located, follow plan. Request a formal survey to get the E1/16 between Sec. 5 and 8 established. There is a wood post there now but not a registered corner, although the location looks very good. 98=39,30,21 99=03,01,07,04.  Stand harvested via selection as sale #021-09-01, Compartment 31 Hardwoods. Completed 04/05/10. Regeneration check needed in 2014. Summer 2012: RM = 926 Hem = 80 TPA = 1007
19	42200 - Natural White Pine	Sawtimber Medium	78.0	108	51-80	OPIC - FMD: Stand was treated in 2002; T.sale#011-99. There is now a significant amount of aspen regen 0-1" DBH 5-15' tall, thicker in some places than others. Patchy WP/RP was left as residual. BA ranges from 0-120 mostly sawlog sized. Areas of heavier r. maple reproduction. B.fir and spruce reproduction throughout.
21	6112 - Lowland Aspen	Sapling Poor	22.2	7	Immature	Stand harvested via final harvest as sale #042-09-01, Compartment 31 Experiment Pine. Completed 10/07/10. Regeneration check needed in 2014.
22	42220 - Natural Jack Pine	Poletimber Well	20.9	26	Immature	Stand was treated in 1990-91'; T.Sale#025-89. Stand has now regenerated nicely to JP that is 5"DBH and 10-20' tall. Birch, aspen, w.pine, spruce and balsam regen mixed in as well.
26	42200 - Natural White Pine	Sapling Medium	153.3	16	1-50	Stand harvested via selection harvest as sale #042-09-01, Compartment 31 Experiment Pine. Completed 10/07/10. Regeneration check needed in 2014.  Regen 2013: White pine 298 TPA. Scattered white pine but few regen. Probably needs more time.
27	42350 - Upland Hemlock	Sawtimber Well	8.8	140	81-110	OPIC - FMD: Hemlock/maple/beech stand. Beech has been heavily infested with BBD, showing signs of decline. Hemlock, maple, beech/balsam regen. Some scattered WP, large diam. and tall (some 35"+DBH).





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
28	42290 - Natural Mixed Pine	Sawtimber Well	17.0	100	81-110	OPIC - FMD: Mixed RP/WP stand, mostly two aged. Large diametered pine in here 14-24". Regen of b. fir, w.pine, spruce and r.maple throughout. P.birch is dying as well as most aspen. Stand is silviculturally ready but may want to hold for influence zone and diversity/retention amongst the other treatments occurring..
29	42210 - Natural Red Pine	Sawtimber Medium	3.2	97	51-80	OPIC - FMD: Stand was treated in early 90's; Tsale#024-89. Red pine is utility pole quality and the stand is park-like. Looks like WP was mostly removed on last treatment as well as most birch and aspen..  Stand harvested via selection harvest as sale #034-09-01, Compartment 31 Contract Pine. Completed 10/07/10. Regeneration check needed in 2014.
30	42210 - Natural Red Pine	Sawtimber Medium	29.9	97	51-80	OPIC - FMD: Stand was treated in early 90's; Tsale#024-89. Red pine is utility pole quality. Some WP regen present but the stand is mostly park-like. Looks like WP was mostly removed on last treatment as well as most birch and aspen..  Stand harvested via shelterwood as sale #42-022-09-01, "Two Creek Pine". Completed 12/21/12. Regeneration check needed according to work instructions.
31	42200 - Natural White Pine	Sawtimber Well	26.6	100	51-80	OPIC - FMD: Stand was treated in 2001; T.Sale#025-99. Mixed RP/WP stand. RP has utility pole quality. WP is decent as well. Some large diameter/old WP scattered throughout stand. R.Maple regen dominates in places. WP, spruce, b.fir and aspen regen as well.
32	42200 - Natural White Pine	Sawtimber Well	14.6	100	51-80	OPIC - FMD: Stand was treated in 2001; T.Sale#025-99. Mixed RP/WP stand. RP has utility pole quality. WP is decent as well. Some large diameter/old WP scattered throughout stand. R.Maple regen dominates in places. WP, spruce, b.fir and aspen regen as well.
34	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Medium	3.3	57	51-80	OPIC - FMD: Stand is an intermittant drainage that leads toward Chris Brown Creek. It is dry most of the year. Timber species in stand is variable, mostly balsam fir, spruce, p.birch, r.maple, some cedar and w.pine. Soil=Spot/Finch. 99=04,10,03.
35	6122 - Black Spruce	Sawtimber Well	9.2	102	51-80	OPIC - FMD: Stand is adjacent to Chris Brown Lake and includes some of Chris Brown Creek. It varies from upland pine to lower type along lake/creek. Lower area ground cover is mostly leaterhleaf brush with lowland conifers present such as balsam fir, cedar, spruce and some pine. Birch is scattered in stand. Serves as a nice buffer to the lake and creek.
39	6122 - Black Spruce	Sawtimber Well	13.8	102	51-80	OPIC - FMD: Stand is situated on north edge of Chris Brown Lake. Black spruce on the fringes in lower ground and a pine mix in the upland sand ground. Stand would serve as a nice buffer to the lake. WP/RP is older and some is large diametered, 16-24"DBH. J.Pine is mature but lower quality and limby. WP regen throughout upland pine type.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
41	42210 - Natural Red Pine	Sawtimber Medium	93.9	97	51-80	Stand harvested as sale #023-09-01, "Chris Brown Lake Red Pine". Completed 01-09-12. Regeneration check needed in 2016.  Regen 2016: 21 TPA of red pine, 424 TPA of white pine, 848 TPA of red maple, and 587 TPA of red oak. Residual BA of 60.
42	4136 - Aspen, Mixed Conifer	Sapling Well	48.7	26	Immature	Stand was treated in 1990; T.Sale#017-89. Regen from harvest is predominately aspen but there is quite a mix of other species as well. B.fir, w.pine, spruce, p.birch, r.maple and cherry are regenerating quite well across the stand.
43	42210 - Natural Red Pine	Sawtimber Well	4.8	104	51-80	OPIC - FMD: Stand occurs along a subtle gully. Mixed bag of species, mostly pine - WP/RP that is sawlog sized 14-20"DBH. Some poles as well. Aspen, p.birch, r.maple, balsam fir, spruce mixed throughout. B.fir understory predominately mixed with spruce, r.maple and aspen.
44	42290 - Natural Mixed Pine	Sawtimber Well	12.0	102	111-140	OPIC - FMD: Park-like stand, visually scenic along Chris Brown Lake. Stand is situated on the back of a ridge. R.pine has utility pole quality. Aspen/birch scattered throughout and dying out. Oak present.
46	42220 - Natural Jack Pine	Poletimber Well	6.9	67	51-80	OPIC - FMD: OI Stand Year Origin was 1950
48	42210 - Natural Red Pine	Sawtimber Medium	29.9	107	51-80	OPIC - FMD: Stand harvested via shelterwood as sale #42-022-09-01, "Two Creek Pine". Completed 12/21/12. Regeneration check needed according to work instructions.
49	42210 - Natural Red Pine	Sawtimber Well	65.3	107	51-80	OPIC - FMD: Stand was treated in 2000, part of T.Sale#025-99. Some RP has utility pole quality. Large diameter RP in here - 14-24". Some WP is decent but most is typically knotty with dead limbs. Regen of WP and RP becoming apparent, especially where soil was disturbed. Hold stand until next inventory and treat again.
50	42200 - Natural White Pine	Sapling Poor	10.8	25	1-50	OPIC - FMD: Stand was part of T.Sale#025-99, cut in 2001. It was a JP/RP/WP mix heavy to JP. All jack pine and some RP/WP was removed in harvest. Stand is now an overstory of RP/WP with 1-3' tall WP regen. Some JP, RP, balsam, r.maple, and aspen regen mixed in as well. Regen is thick/thin.
51	4220 - Natural White Pine	Poletimber Medium	2.3	87	51-80	OPIC - FMD: Stand is situated along a gully that drains towards Chris Brown Creek. Stand was partially treated in 2000 with T.Sale# 025-99. Scattered pine left, some p.birch and cedar as well. Maple in stand is poor quality. Soil=Spot/Finch
52	42200 - Natural White Pine	Sawtimber Well	11.0	102	51-80	OPIC - FMD: White pine is mostly large diametered and limby. Jack pine and spruce throughout. Treat with adjacent stands to the east. Two-aged, larger WP/RP overtops JP/spruce and balsam. Aspen, r.maple and birch throughout.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
53	4130 - Aspen	Poletimber Medium	6.5	62	51-80	OPIC - FMD: Poor quality aspen. Jack pine mixed throughout with RP/WP, spruce as well. WP regen coming along nicely in understory. Treat when surrounding jack pine stand is treated. 98=30,31,22,20.
54	42220 - Natural Jack Pine	Poletimber Well	118.0	62	51-80	OPIC - FMD: Stand is predominately jack pine with RP/WP mixed throughout. Poor quality aspen throughout stand as well. Open areas throughout stand where jack pine is limby and poor quality.
55	4133 - Aspen, Mixed Pine	Poletimber Medium	4.8	67	1-50	OPIC - FMD: Poor quality aspen. Jack pine mixed throughout with RP/WP, spruce as well. WP regen coming along nicely in understory. Treat when surrounding jack pine stand is treated. 98=30,31,22,20.
56	42220 - Natural Jack Pine	Poletimber Well	16.6	25	Immature	OPIC - FMD: Stand was treated in 1992; t.sale#021-89. Jack pine regenerating and is now 5-15' tall, 1-3"DBH. WP, aspen, balsam regen mixed throughout as well.
57	4130 - Aspen	Sapling Well	31.8	25	Immature	Stand was treated in 1992; T.sale#021-89. Aspen regenerated nicely and is anywhere from 10-30' tall, 1-3"DBH. Some WP, balsam fir regen mixed in as well.
58	42200 - Natural White Pine	Sawtimber Medium	215.0	108	51-80	OPIC - FMD: Mixed RP/WP stand. Mostly two aged. Large diam. Pine in here 14-24" DBH. Regen of WP, balsam, spruce and r.maple throughout. P.birch is dying out as well as most aspen. Treat stand to enhance existing WP regen as well as encouraging more. If treated, may have to cut some p.birch and aspen in some areas to improve maneuverability for logging.  Stand harvested via shelterwood harvest as sale #034-09-01, Compartment 31 Contract Pine. Completed 10/07/10. Regeneration check needed in 2014.  Regen 2013: Red pine 685 TPA, jack pine 205 TPA.  Regen 2017: red pine regen not seen must have meant white pine from 2013 survey.
59	42200 - Natural White Pine	Sawtimber Well	57.4	102	81-110	OPIC - FMD: Sale was treated in 2000; T.sale#001-00. Overstory of sawlog sized WP/RP with thick aspen, b.fir, r.maple reproduction. Regen is 5-15' tall, 0-2" DBH. More RP on the east end of stand and more open understory.
61	42350 - Upland Hemlock	Sawtimber Well	16.9	108	81-110	OPIC - FMD: Stand is situated in a bowl, surrounded by ridges that are steep in places. Beech is ~75% dead. Many still standing but breaking apart, bark falling off, limbs breaking off, etc. The remaining beech is not far from being dead. Thick hardwood understory, mostly beech, red maple and some Y.birch. B.fir and hemlock throughout as well. Aspen and p.birch is also falling out of stand, dead/dying. Stand is going to hemlock. 99=21,20,30.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
62	429 - Mixed Upland Conifers	Sawtimber Well	9.1	106	81-110	OPIC - FMD: Stand is mixed bag of species. Larger WP in overstory as well as aspen, p.birch, spruce, balsam, beech, r.maple, and hemlock. Thick b.fir, r.maple, beech understory. Stand has been logged in the past ~40 yrs ago?. Beech has scale and either dead or nearly dead. Aspen/birch is also showing signs of decline. 98(pulp)=30,39,20,21 98(sawlog)=39,31 99(pulp)=10,07.
63	42290 - Natural Mixed Pine	Sawtimber Well	13.9	100	81-110	OPIC - FMD: Stand is a mixed bag. Steep north facing slope along the n. edge of stand, mostly inoperable, with larger trees and abundant hemlock. Beech has nearly fallen out of stand due to BBD. WP is decent, but not stellar, it has diameter, but is knotty. Thick b.fir, r.maple, beech understory in many places. Stand transitions into pine type along the south edge. 98(sawlog)=31,39,21 98(pulp)=39,20,31,21.
64	429 - Mixed Upland Conifers	Sawtimber Well	18.9	140	111-140	OPIC - FMD: Stand has large diametered timber, mostly hemlock with beech, WP, R.Maple, Y.birch, balsam and spruce mixed in. Beech is nearly dead or already dead from BBD. Some large diametered WP, measured one at 44"DBH. Hemlock, r.maple, beech, b.fir regen thick and thin. Evidence of past logging, long ago, still old logs laying around. 99=03,07,04 98=22,20,30.
65	42200 - Natural White Pine	Sawtimber Well	28.4	108	81-110	OPIC - FMD: Stand occurs along the back of a ridge, fairly steep on the south facing slope. Stand is a mixed bag of tree species. Aspen and birch is getting old and dying out. WP/RP throughout. Hemlock/beech flanking the lower edge of the sidehills in here. J.Pine present. Regen varies from mostly WP to balsam fir, thick in places. Stand is moving towards a pine dominated stand.
66	42200 - Natural White Pine	Poletimber Well	39.6	108	81-110	OPIC - FMD: Mixed bag of WP/RP, some jack pine. Birch and aspen scattered throughout, poor quality and showing signs of decline. Large diametered RP/WP in overstory, mostly limby especially the WP.
67	42200 - Natural White Pine	Poletimber Well	36.2	60	51-80	OPIC - FMD: Stand is mostly pole white pine with a mix of jack pine, aspen, p.birch. Aspen/p.birch is dying out. Stand has large diametered and limby w.pine over young WP thick and thin in understory. R.Pine scattered throughout stand. Look at in next inventory cycle and evaluate for treatment.
69	42200 - Natural White Pine	Poletimber Poor	6.0	67	1-50	OPIC - FMD: Open grown jack pine, wolfy. North end of stand is an abrupt hill that is a steep north facing hillside.
70	4133 - Aspen, Mixed Pine	Poletimber Medium	7.7	57	51-80	OPIC - FMD: Mixed bag stand, mostly aspen that is lower quality. W.pine, r.pine and j.pine mixed throughout. Sawlog sized WP/RP. Some balsam and spruce as well. Steep North facing slope on the south end of stand.
72	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	22.7	107	81-110	OPIC - FMD: Stand is mostly situated on a side hill that leads to the Two Hearted River. Mostly old timber in here. Stand falls in Two Hearted River Zone. Plan calls for strip cuts in this zone if treated, that would not be feasible at this time.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
73	4220 - Natural White Pine	Poletimber Well	14.6	100	81-110	OPIC - FMD: Stand is a mixed bag of species, mostly WP, hemlock, b.fir with a mix of cedar, spruce, aspen r.maple, y.birch and paper birch. Some 30"+ DBH white pine in here, high quality. Stand is in the Two Hearted River Zone. According to the plan, a selection harvest may be used leaving minimum of 100BA of RP/WP, not feasible to harvest at this time. No good access to stand without building a new road.
74	411 - Northern Hardwood	Sawtimber Well	20.3	100	81-110	OPIC - FMD: Low quality hardwoods; large, overmature, defective trees. Nice WP and spruce scattered in stand. Some large diametered WP 30"+DBH. Beech has scale and is dying. Access to stand would be difficult if treated. Would need to build a new road across a steep gully. Feasibility would be questionable at this time. Stand is in the Two Heated River Zone. Soil=Paquin/Spot. 98(pulp)=39,30,21 98(sawlog)=21,20,25,39 99=07,04
75	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	2.2	102	81-110	OPIC - FMD: Stand is a mixed bag of species, hemlock, cedar, w.pine, spruce, balsam, y.birch, r.maple and beech. Stand is along a steep hill that flanks a drainage. Hardwoods are poor quality and overmature. There are some large diametered trees in most species present. Stand falls in the Two Hearted River Zone. 99=10,04,03,07
77	411 - Northern Hardwood	Sawtimber Well	2.6	100	81-110	OPIC - FMD: Low quality hardwoods, overmature and defective. Beech is dying from BBD. Most of the stand falls in the Two Hearted River Zone. Feasibility of treating a small stand like this is not likely unless added to a larger adjacent timber sale. 99(saw)=03,07,01,04 99(pulp)03,07,01,04 Soil=Paquin/Finch
78	411 - Northern Hardwood	Sawtimber Well	3.8	100	81-110	OPIC - FMD: Stand is mostly overmature, low quality hardwoods. Scattered WP, hemlock, cedar and spruce. Stand falls in the Two Hearted River Zone. According the plan, residual BA should range from 70-95 for the area that the stand is in. Would not leave much volume to treat, may not be feasible to treat. 98(pulp)=30,39,21 98(saw)20,39,25 Soil=Paquin/finch.
79	6120 - Lowland Cedar	Poletimber Medium	5.9	100	51-80	OPIC - FMD: N.end of stand is marginally productive, too wet. S.end of stand is decent. Scattered w.pine throughout in overstory. Stand falls in Two Hearted River Zone. Thick understory of lowland conifer/hardwoods species. 99=10,03,41,04. Soil=Tawas/Spot/Finch complex.
80	612 - Lowland Coniferous Forest	Sawtimber Well	15.9	87	51-80	OPIC - FMD: Stand is a mix of timber types flanking the Dawson Creek. Most of the timber is old and growing on the banks of the creek. Some areas are level, some are steep slope sides. The stand falls in the Two Hearted River Zone and is mostly within 100' of the Dawson Creek. 98=30,39 99=10,04
81	411 - Northern Hardwood	Sawtimber Well	3.6	100	51-80	OPIC - FMD: Stand looks to have been logged in past, maybe 30 yrs ago?. Old skid roads evident. Access in to the west across TNC land. Stand falls in the Two Hearted River Zone. Stand is mostly uneven-aged hardwoods that are poor quality, defective and old. Sapling sized regen present. Need a minimum of 95 BA according to the plan.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
82	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	10.4	87	81-110	OPIC - FMD: Decent stand of conifer. Stand is mostly situated on a side hill but also has areas of level topography. Some large diametered cedar, especially near the edge of Dawson Creek. Portions of stand are bisected with drainages, some are deep cuts. Stand falls in Two Hearted River Zone. Strip cuts would not be feasible if plan is followed. 98=39,30,22 99=03,04,10.
83	411 - Northern Hardwood	Poletimber Well	2.7	100	81-110	OPIC - FMD: Stand falls on the west bank of the Dawson Creek. Stand is in the Two Hearted River Zone. Little that can be that can be done in regards to treatment due to location and plan guidelines. Deep cut/narrow drainage gullies running through the stand. 99(saw)04,07 99(pulp)=10,04,07 98=21,39
84	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	11.6	100	81-110	OPIC - FMD: Stand is along the banks of a small feeder creek and along the banks of the Dawson. Stand is entirely on sidehills leading towards creek bottom. Mixed bag of conifer species with some hardwoods. Stand falls in the Two Heart River Zone as well as in BMP zones. 98(pulp)=21,39 98(saw)=30,39
85	411 - Northern Hardwood	Sawtimber Well	13.8	100	81-110	OPIC - FMD: Stand is overmature hardwoods mostly poor quality. Edges of stand are thick with balsam fir understory. Large WP scattered in stand. Stand falls in Two Hearted River Zone. The river plan calls for a residual BA of 70-95. Stand may not be feasible to treat at this time. Soil=Paquin/Spot 99=07,10,04.
86	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	12.5	87	81-110	OPIC - FMD: Stand is variable. Large WP and hemlock, r.maple, y.birch and spruce on the north end. Smaller spruce, cedar, p.birch on the south end, lower ground. Stand falls in the Two Hearted River Zone. Plan call for strip cuts if treatment takes place, may not be a feasible option. 98=21,39,30. Soil=Spot/Finch Complex.
88	411 - Northern Hardwood	Poletimber Well	8.4	100	51-80	OPIC - FMD: Some large diametered, overmature sawlog sized trees. Some large aspen scattered in stand, beginning to die out. Most hardwood is poor quality. A lot of maple reproduction, sapling sized. Heavy b.fir understory on west edge of stand. Stand is in Two Heart River Influence Zone, can thin to 70BA. 98=20,22,21 99=04,10,01,49. Need formal survey corner on E1/16 of Sec. 5. The adjacent landowner to the east has approximated a corner there and run a line, they cut their property already. Approx. survey corners in area along with old wood posts and locations look to be very close. Stand harvested via selection as sale #021-09-01, Compartment 31 Hardwoods. Completed 04/05/10. Regeneration check needed in 2014. Summer 2012: RM = 926 Hem = 80 TPA = 1007
89	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	8.9	100	81-110	OPIC - FMD: Stand is a mixed bag of tree species and a transition where upland hardwoods meet lower conifer type. Stand is mostly situated on a sidehill where topography slopes towards the Dawson Creek. Maple is low quality. B.fir is thick in understory. Stand falls in Two Hearted River Zone. Conifers such as w.pine, hemlock, w.spruce, cedar, balsam are a significant part of stand.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
90	6129 - Mixed Coniferous Lowland Forest	Sawtimber Medium	14.2	100	51-80	OPIC - FMD: Spruce, balsam, w.pine with some cedar, hemlock, y.birch and r.maple growing along the banks and lower areas flanking the Dawson Creek. Tag alder understory in lower areas. Some timber is large diametered, hardwood is low quality. Spruce, balsam, w.pine is decent. 99(pulp)=10,04,03 99(saw)=03,04 98=21,39,30,25
91	411 - Northern Hardwood	Sawtimber Well	7.2	100	81-110	OPIC - FMD: Stand is mostly large diametered, overmature hardwoods of poor quality. Stand could be thinned down to 95 BA according to the Two Hearted River plan. Would not be feasible when it is only around 100 BA now. Small acreage and limited access.
93	42340 - Upland Spruce/Fir	Poletimber Medium	2.8	57	51-80	OPIC - FMD: Thick b.fir understory. WP scattered, some sawlog sized. Some large w.spruce/cedar flanking a feeder stream leading to the Dawson Creek. May never be feasible to treat this stand due to its location and the restrictions of the Two Hearted River plan. Soil=Paquin/Spot.
94	411 - Northern Hardwood	Sawtimber Well	7.5	100	51-80	OPIC - FMD: Stand is mostly large diametered, overmature, poor quality hardwoods. Western edge of stand is thick with balsam fir understory. W.spruce/hemlock regen present. Beech has scale, nearly dead. Two Heart River plan requires a minnum BA of 70 in the area the stand is located, follow plan. Request a formal survey to get the E1/16 between Sec. 5 and 8 established. There is a wood post there now but not a registered corner, although the location looks very good. 98=39,30,21 99=03,01,07,04.Stand harvested via selection as sale #021-09-01, Compartment 31 Hardwoods. Completed 04/05/10. Regeneration check needed in 2014. Summer 2012: RM = 926 Hem = 80 TPA = 1007
95	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	23.2	100	81-110	OPIC - FMD: Stand falls along the edge of the Dawson Creek. Topography varies, but ground is mostly firm. Mixed bag of merchantable tree species, mostly conifer throughout. Hardwood is low quality and mostly overmature. Thick understory of b.fir and hardwood saplings in most places. Stand falls in the Two Hearted River Zone. May not be feasible to treat stand according to the plan. Soil= Paquin/Spot Complex. 99=10,03,04 98=39,25.
96	42340 - Upland Spruce/Fir	Poletimber Medium	3.6	57	51-80	OPIC - FMD: Thick b.fir understory. WP scattered, some sawlog sized. Some large w.spruce/cedar flanking a feeder stream leading to the Dawson Creek. May never be feasible to treat this stand due to its location and the restrictions of the Two Hearted River plan. Soil=Paquin/Spot.
97	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	1.8	100	81-110	OPIC - FMD: Stand is a mixed bag of species, hemlock, cedar, w.pine, spruce, balsam, y.birch, r.maple and beech. Stand is along a steep hill that flanks a drainage. Hardwoods are poor quality and overmature. There are some large diametered trees in most species present. Stand falls in the Two Hearted River Zone. 99=10,04,03,07
98	42200 - Natural White Pine	Poletimber Medium	2.2	52	51-80	OPIC - FMD: Stand looks to be an old cutting ~40 yrs ago (no records). Occasional Wo/Rp sawlog sized in overstory. Thick reproduction of b.fir, spruce, r.pine, w.pine. Old road leading to stand.

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Newberry Mgt. Unit

## Report 7 – Forested Stands

Compartment: 31  
Year of Entry: 2019

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
99	429 - Mixed Upland Conifers	Sawtimber Well	13.8	100	111-140	OPIC - FMD: Stand is situated mostly on steep topography that flanks the Two Hearted River corridor. Mostly conifer - pine, hemlock, cedar, spruce with some paper birch. Stand falls in Two Hearted River Zone. 99=04,03.
100	42350 - Upland Hemlock	Sapling Poor	10.3	10	1-50	OPIC - FMD: Stand is a transition between hardwood and pine type. White pine in here is tall and has quality. Thick b.fir understory. Treat with adjacent w.pine stand if that is treated. 99=03,07,10 98=31,21,20,39 Stand harvested via shelterwood harvest as sale #042-09-01, Compartment 31 Experiment Pine. Completed 10/07/10. Regeneration check needed in 2014.
101	42220 - Natural Jack Pine	Poletimber Well	2.7	67	1-50	OPIC - FMD: Stand is a buffer along Chris Brown Lake. Spruce/pine along the edge. North end of stand comes up into a jack pine upland type where there is a small camping spot/boat launch that people have historically used. 98=31,30
102	42220 - Natural Jack Pine	Sapling Poor	52.8	15	Immature	Jack pine regen is more apparent on this side of County Road 414 than on the south side of road. Stand was cut in 2001; T.sale #012-99. A few scattered white pine and oak. Standing JP snags present. Stump sprout r.maple regen. ***FTP42-497: regeneration survey completed in May, 2005. 788 t/ac stocking (706 JP, 41 RM, 21 F/S and 20 WP).
103	42200 - Natural White Pine	Sawtimber Well	25.0	102	51-80	OPIC - FMD: Stand is mostly white pine/birch overstory. Thick b.fir understory, some w.pine regen mixed in. Birch is dying out or is standing dead already.





Stand	Cover Type	Acres	Managed Site	General Comments:
2	122 - Road/Parking Lot	11.1	No	OPIC - FMD: County Road 414 R.O.W. County has recently been widening/maintaining their Right of Ways by cutting all trees to the edge of the ROW. Schedule this stand for a possible treatment if they decide to cut along this road as well. ***Stand was cleared by Luce Co Rd Commission. Sale #019-09-02. Completed 6/22/09.
4	622 - Lowland Shrub	10.3	No	Marsh. Leatherleaf and grasses as ground cover.
6	622 - Lowland Shrub	3.4	No	OPIC - FMD: Marsh. No water now. Grasses and leatherleaf as ground cover. Some trees growing in stand.
18	500 - Water	2.1	No	Two Hearted river
20	6224 - Treed Bog	7.5	No	OPIC - FMD: Suppressed spruce/tamarack.
25	6224 - Treed Bog	4.1	No	
36	500 - Water	1.9	No	OPIC - FMD: Water hole west of Chris Brown Lake. Water levels fluctuate - overflow of Chris Brown Lake.
37	623 - Emergent Wetland	10.1	No	OPIC - FMD: Marsh between Chris Brown Lake and adjacent water hole. Water levels seasonally fluctuate.
45	500 - Water	57.9	No	Chris Brown Lake.
47	6224 - Treed Bog	24.4	No	OPIC - FMD: Scattered suppressed trees in stand.
76	622 - Lowland Shrub	2.3	No	OPIC - FMD: Bottom of a ravine, water flowing in here now. Ravine bottom is ~25-150' wide. Steep hills on both sides. Some tree species growing in bottom, mostly lowland conifer. Evidence of past and recent beaver activity.
92	122 - Road/Parking Lot	2.1	No	OPIC - FMD: County Road 414 and its R.O.W. Stand includes the bridge over the Dawson Creek.