



# Compartment Review Presentation

## Newberry Forest Management Unit

Compartment 42020

Entry Year 2024

Acreage: 2,278

County Luce

Management Area: Two Hearted Headwaters

**Stand Examiner:** Jason Tokar

### Legal Description:

T48N R11W, Sec. 3, 4 & 9; T49N R11W, Sec. 27-28, 33-35

### Identified Planning Goals:

Maintain and promote the characteristics and integrity of the proposed Quiet Area (Pretty Lake Quiet Area), as well as promote and protect the Pretty Lakes Pinery ERA featuring dry-mesic Northern Forest residing within the compartment, through natural processes and very limited silvicultural treatments.

### Soil and topography:

The soil type is predominately Croswell-Spot complex. Rubicon sand, Paquin sand, Rousseau-Spot complex, and Markey mucky peat are also major soil types. There are minor soil components of Wallace sand, Carbondale, Lupton and Tawas mucks. The topography ranges from wet, lowlands to relatively flat ground to gentle ridges. Steep sand banks are found along many portions of the Two Hearted River.

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

This compartment is mainly continuous State ownership with one parcel of Nature Conservancy land along the south boundary and one 40 acre parcel on the south side of Long Lake consisting of multiple small private land ownerships. Development is minimal due to primarily State ownership adjacent to the compartment. The area is used heavily for recreation activity such as camping, hiking, canoeing, fishing, ORV riding and some hunting.

### Unique Natural Features:

Extensive wetland interspersed with mature pine and northern hardwoods. Dry mesic northern forest record within compartment (Pretty Lake Pinery, AB ranked).

Potential for rare plants of rich mesic forests: *Carex assiniboinensis*, new england sedge, *Galium kam*, showy orchis, Ginseng, Goblin Fern. Potential for rare plants of dry northern forest and dry mesic northern forest: *Dalibarda repens*, pine drops. Potential for wetland plants such as Canada rice grass, autumnal water star wort, Wiegand's sedge, alga pondweed, english sundew, and moor rush

Loon record from Pretty Lake. Potential for goshawk, eagle and osprey in pine stands. Potential for RSH in M9 stands. Potential for Incurvate Emerald, ebony boghaunter, Frigga fritillary and Freija fritillary in bog and fen habitat.

### Archeological, Historical, and Cultural Features:

None known within the compartment.

### Special Management Designations or Considerations:

The Pretty Lake Complex has been proposed as a Quiet Area. The vast majority of this compartment lies within this proposed quiet area designation.

The Pretty Lakes Pinery ERA featuring Dry- mesic Northern Forest resides within the compartment. The southern portion of the compartment also falls within the Two Hearted River Natural River corridor, as the North Branch is part of the Natural River and falls under the Natural River plan.

### Watershed and Fisheries Considerations:

This compartment contains the Pretty Lakes Complex and the North Branch Lakes where a series of many valuable fisheries are located. The North Branch Two Hearted River runs along the southern boundary of the compartment. The North Branch is part of the Natural River and falls under the Natural River plan. No treatments are located near any of these important waterbodies, so Fisheries has no concerns at this time.

### Wildlife Habitat Considerations:

Compartment 20 lies in north western Luce county and is in the Seney Sand Lake Plain ecological sub-subsection. The compartment surrounds the Pretty Lakes complex proposed wilderness area and is in the Two Hearted Headwaters Management Area where black bear, blackburnian warbler, pileated woodpecker, and american marten are designated featured species. The Pretty Lakes Pinery ERA featuring Dry- mesic Northern Forest resides within the compartment.

The compartment is dominated by mature cover types primarily consisting of white pine, northern hardwoods, upland

mixed and mixed conifer types, and spruce with numerous small lakes interspersed. The area has been managed as a wilderness area in the past and no treatments are prescribed in the compartment this entry year. The compartment serves a vital purpose for wildlife species requiring large stands of mature cover types such as american marten and blackburnian warbler, and serves numerous other wildlife species needs for resting and escape cover, travel corridors, nest, den, and roosting sites and food sources. Loons nest in the compartment and waterfowl species use the lakes as resting sites during migration.

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

Sections 3-4 & 9, T48N-R11W, Sections 27-28 & 33-35, T49N-R11W, Luce County

No known potential exists for commercial oil & gas production in this part of the state, and there is no known potential for metallic minerals in this area. The nearest known active sand/gravel pit is three miles east. The compartment is dominated by wetlands, and potential for surface mining is limited. No current State mineral leasing activity exists in the area. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

### **Vehicle Access:**

Access into the compartment can be achieved from County Road 439, leading to Pretty Lake Campground, Poplar Camp Road (Pratt Lake Rd) on the west side of the compartment and Long Lake Trail and one small woods road from the east to the south sections of the compartment. This compartment is managed as a non-motorized area. One abandoned woods road accesses the compartment from the west from Poplar Camp Rd and is recommended for closure to help ensure the integrity of the non-motorized characteristics of the compartment.

### **Survey Needs:**

No survey work is needed.

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

Facilities include the Pretty Lakes SF Campground and proposed Quiet Area. Recreational opportunities include canoeing and kayaking, fishing, camping, wildlife viewing, hiking, hunting, snowmobiling and dog sledding.

### **Fire Protection:**

Large fire potential is low in this area because of the mixture of hardwood and mixed pine complexes broken up by a variety of lakes and marshes. Access is limited and may require short roads built for suppression activities.

### **Additional Compartment Information:**

Recommendation to close a small two track road heading into Section 33 from Poplar Camp Road to help maintain the integrity of the proposed Quiet Area and non motorized management. A Director's Order will be needed. One closed road on the west side of Pratt Lake will need to have the berm re-established and a "No Motorized Vehicles" sign installed. ORV activity has worn the berm down.

Additional acreage was acquired and added to the compartment in 2018, resulting from a land trade with The Nature Conservancy.

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

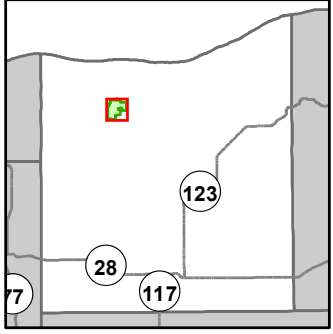
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

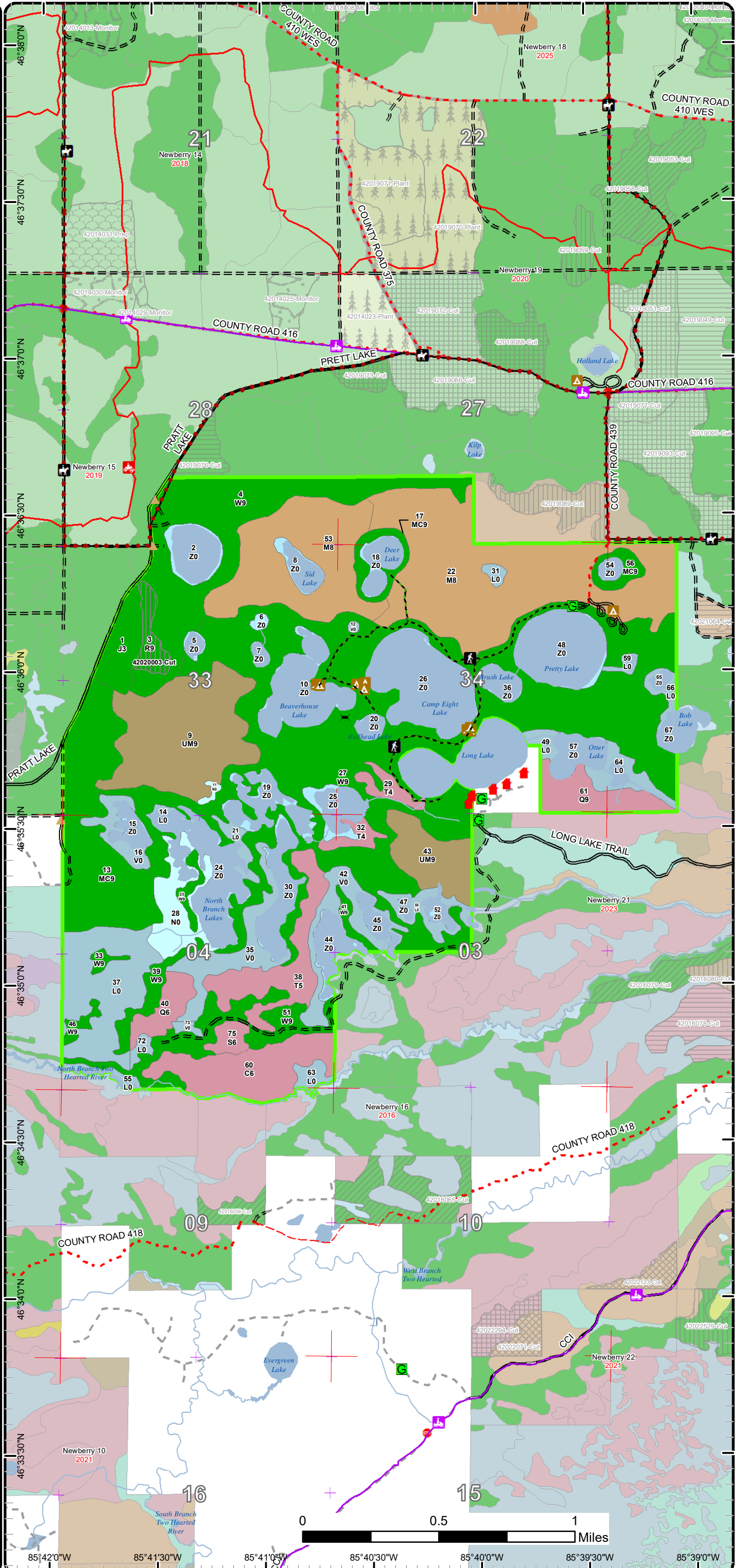
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 20  
 T49N, R11W, Sec. 27, 28, 33-35  
 T48N, R11W, Sec. 3, 4, 9  
 County: Luce  
 Unit: Newberry  
 Mgmt Area: Two Hearted  
 Headwaters  
 YOE: 2024  
 Acres: 2277.9 GIS Calculated  
 Examiner: Jason Tokar  
 Map Revised: 1/6/2023  
 Map Phase: Post-Review



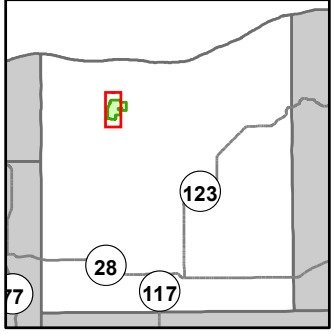
- Miris Corners
- + Remonumented Section Corners
- Counties
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- DNR - Forest Access Route
- County - Gravel Road
- Private - Dirt / Gravel Road
- Hiking Trails
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- Cabin
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- Gate
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- ▲ Campground
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- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



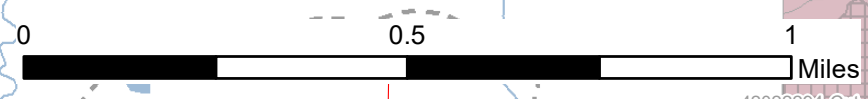
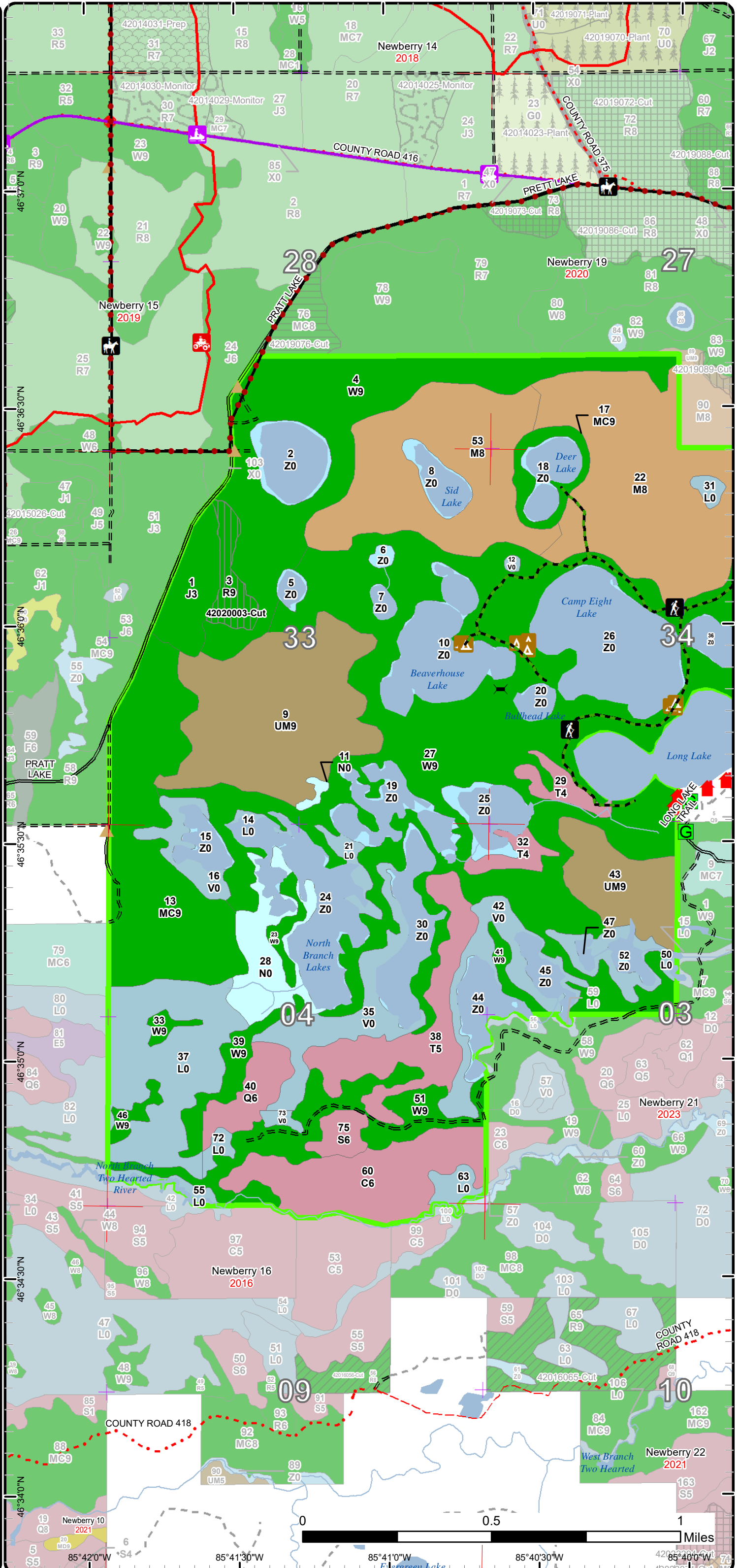
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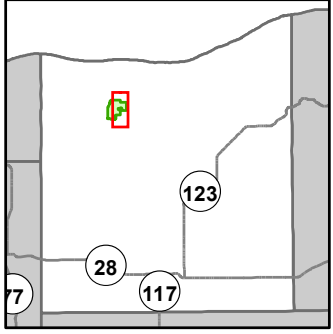
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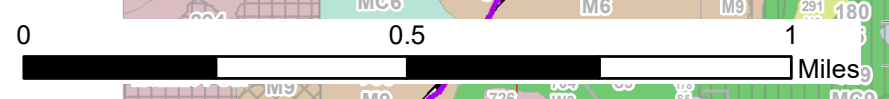
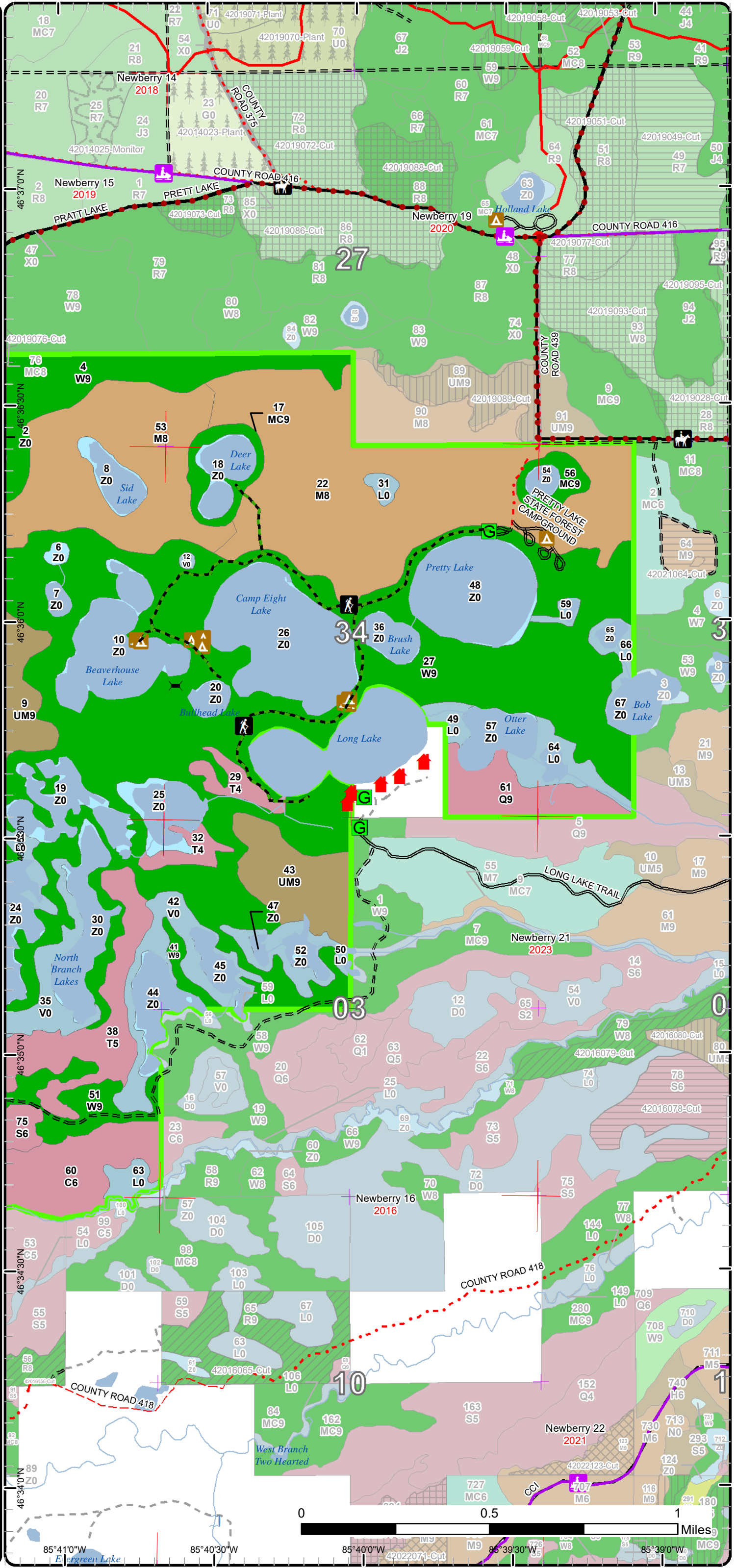
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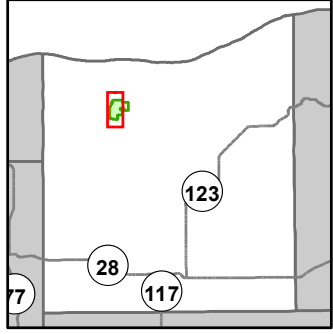
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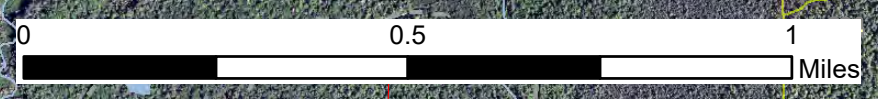
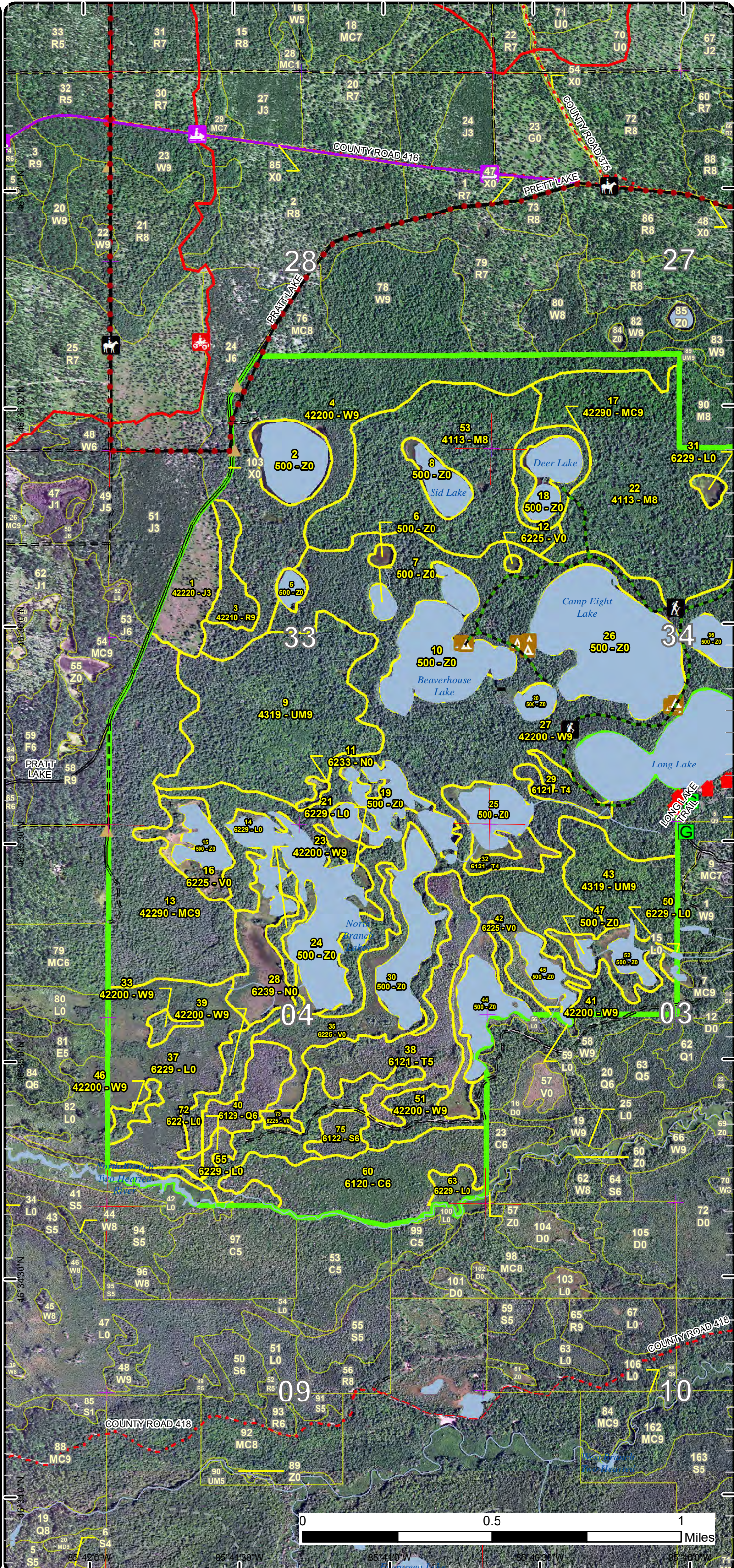
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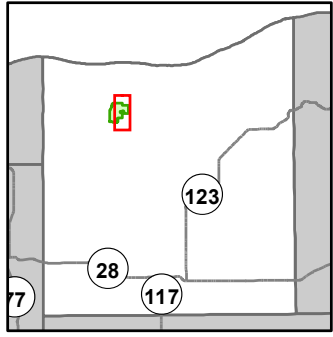


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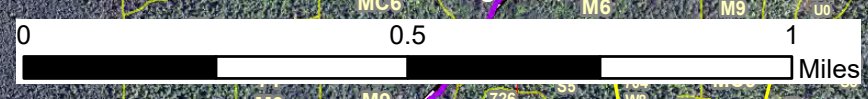
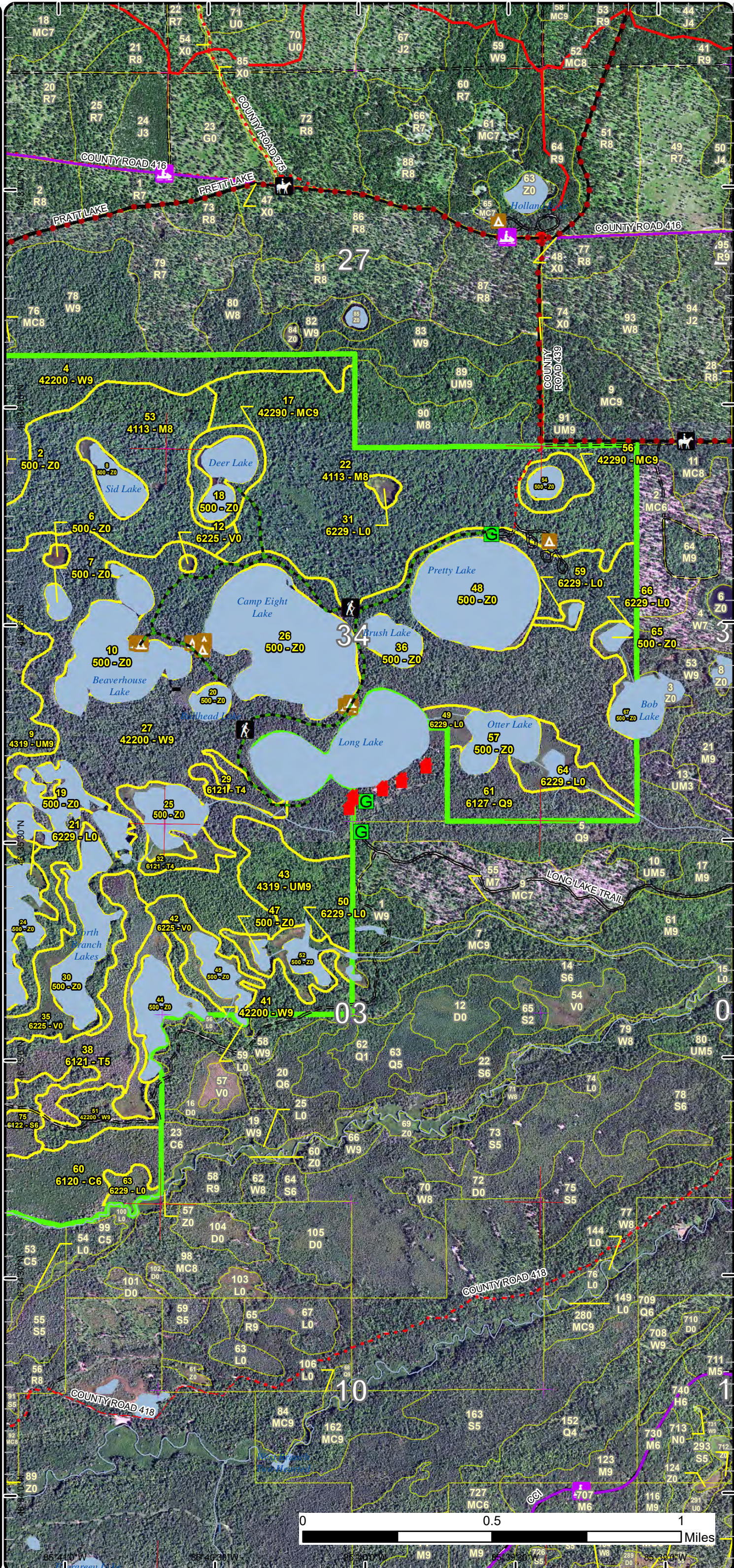


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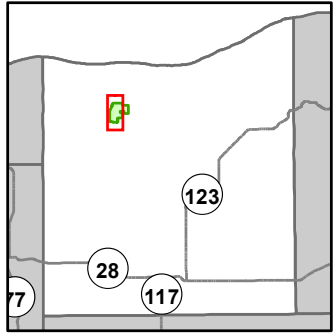


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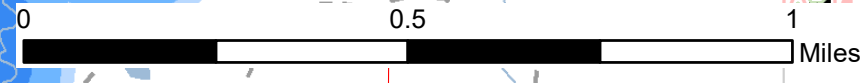
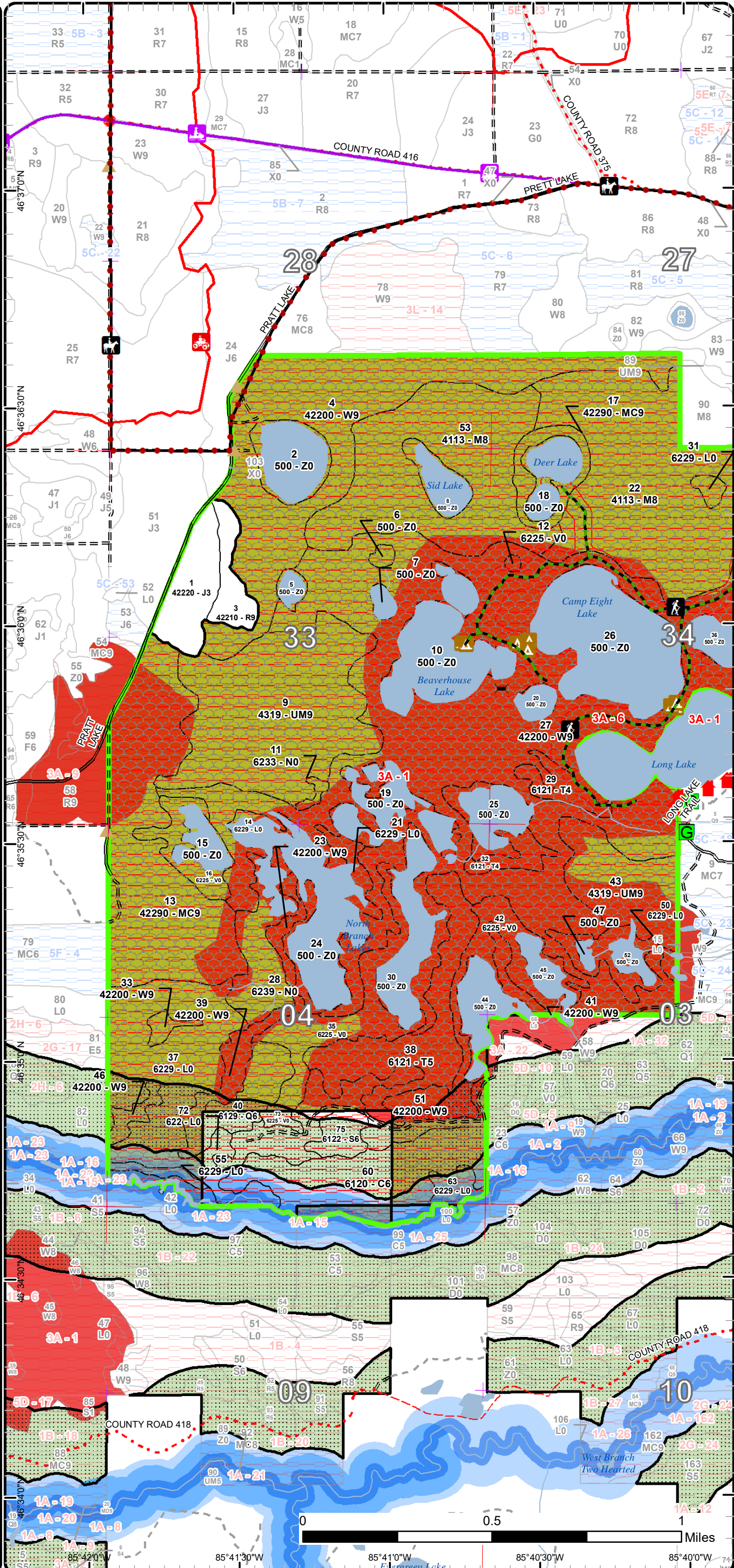


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- SCA
- SCA Removal
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- Forest Habitat Core Interior
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- Recreational/Scenic Value Area
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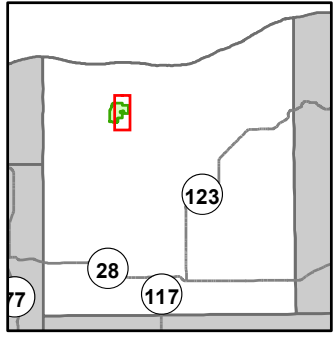


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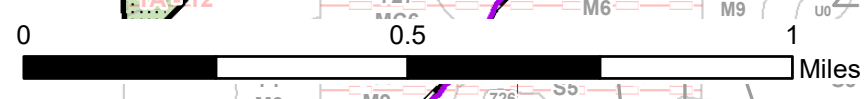
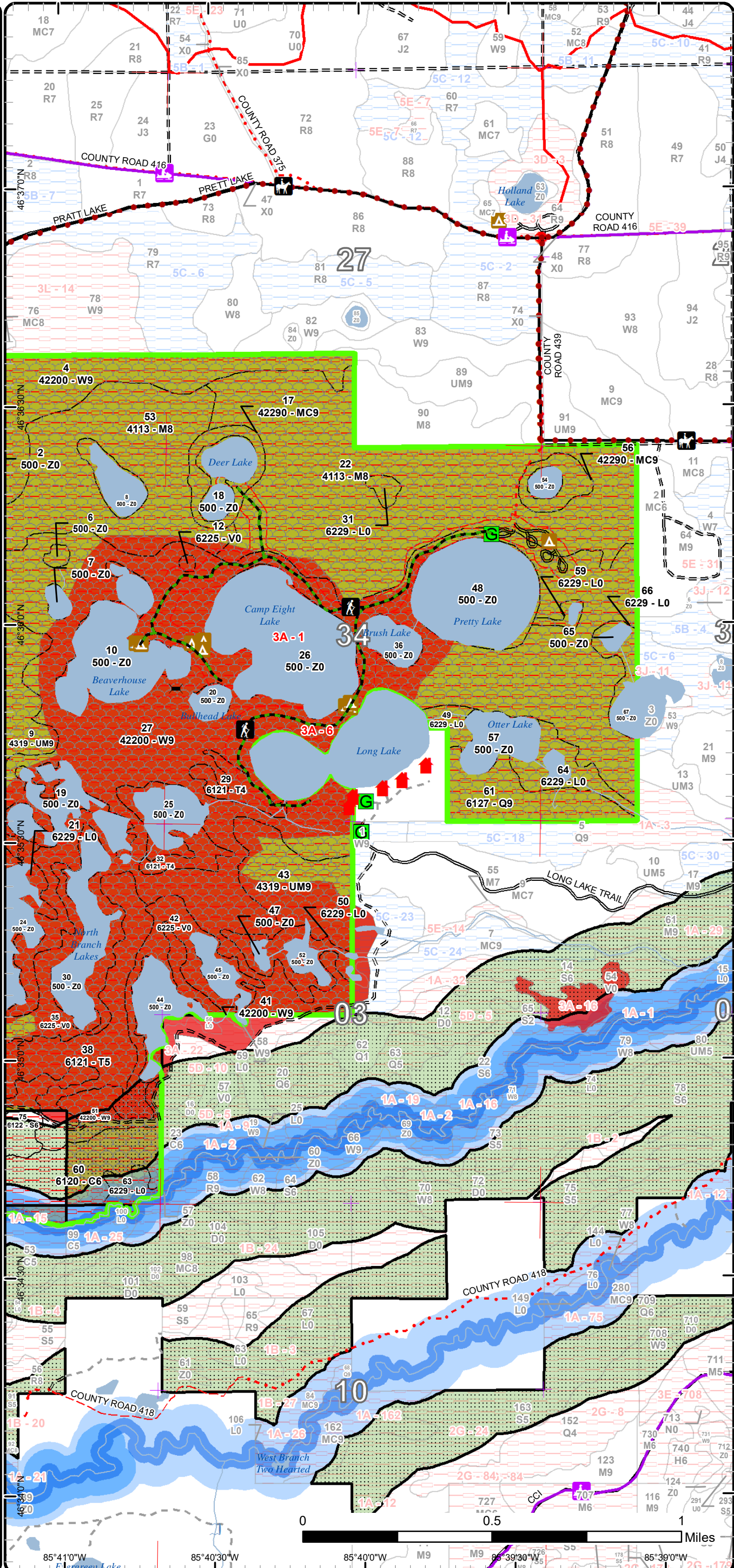


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Bog	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64	0	64
Jack Pine	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	32	0	0	19	0	0	0	0	51
Lowland Shrub	163	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	163
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9
Marsh	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	120	0	22	0	0	0	0	0	142
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	332	0	0	0	0	0	0	0	332
Red Pine	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	14
Tamarack	0	0	0	0	0	0	0	0	70	0	0	0	0	0	0	0	0	0	70
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	161	0	0	0	0	0	0	0	161
Water	404	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	404
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	727	0	0	0	0	0	727
<b>Total</b>	<b>681</b>	<b>0</b>	<b>27</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>70</b>	<b>9</b>	<b>659</b>	<b>0</b>	<b>749</b>	<b>19</b>	<b>0</b>	<b>64</b>	<b>0</b>	<b>2278</b>	



## Report 2 – Treatment Summary

**Newberry Mgt. Unit**  
**Year of Entry: 2024**

**Acres of Harvest**

**Compartment 20**  
**Total Compartment Acres: 2,278**

Commercial Harvest - 14  
 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
Red Pine		0	0	0	0	14	0	0	0	0	14
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>

### Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		14	0	0	0	0	0	0	0	0	14
Next Step		0	0	0	0	0	14	0	0	0	14
	<b>Total</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>28</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>3</b>	<b>42020003-Cut</b>	13.9	42210 - Natural Red Pine	Sawtimber Well	105	111-140	Harvest	Shelterwood	4221 - Natural Red Pine	Two-Aged	No
<p><u>Prescription</u> Shelterwood harvest. Residual BA of 30-40. Retain smaller diameter trees for healthy seed source (12-14 inch). Summer harvest to do as much natural scarification as possible from harvest activities.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Red pine with white pine, jack pine and red maple</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											

**Total Treatment Acreage Proposed: 13.9**

Report 4 – Site Conditions

Newberry Mgt. Unit  
Jason Tokar: Examiner

Compartment: 20  
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions	3A
46	0	0	46	Bog	46
64	0	0	64	Cedar	64
27	27	0	0	Jack Pine	0
51	0	0	51	Lowland Conifers	51
163	0	0	163	Lowland Shrub	163
9	0	0	9	Lowland Spruce/Fir	9
34	0	0	34	Marsh	34
142	0	0	142	Natural Mixed Pines	142
332	0	0	332	Northern Hardwood	332
14	14	0	0	Red Pine	0
70	0	0	70	Tamarack	70
161	0	0	161	Upland Mixed Forest	161
396	1	0	395	Water	395
727	0	0	727	White Pine	727
2,237	42		2,195	Total Forested Acres	2,195
	2%		98%	Relative Percent	

\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3A: Conservation Values incompatible with harvest at this time	2,165	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> The area is managed as a Quiet Area and has been proposed as such. The area has not been officially designated as a Quiet Area. Notes from the 1980's state the intent was to manage the area as an "old growth area". MNFI has identified the area as The Pretty Lakes dry-mesic northern forest community. Dry mesic northern forest ERA in center of compartment.</p>							

# Report 4 – Site Conditions

Newberry Mgt. Unit  
Jason Tokar : Examiner

Compartment: 20  
Year of Entry: 2024

6	Unavailable	3A: Conservation Values incompatible with harvest at this time	104	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
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**Comments:**

The area is managed as a Quiet Area and has been proposed as such. The area has not been officially designated as a Quiet Area. Notes from the 1980's state the intent was to manage the area as an "old growth area". MNFI has identified the area as The Pretty Lakes dry-mesic northern forest community. Dry mesic northern forest ERA in center of compartment.



### 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
42020	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	SCA Removal	2184
<b>Comments</b> Proposal going through 2024 YOE				



**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.
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	42220 - Natural Jack Pine	Sapling Well	26.9	16	Immature	N/A	Jack pine seedlings coming in nicely and stand is fully stocked with jack pine with some rp and wp seedlings. Residual red pine and white pine (log/pole size) scattered throughout the stand. Some clumps of red maple regen also present.																																												
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2	500 - Water	Nonstocked	23.2		Unspecified	No	Pratt Lake																																												
3	42210 - Natural Red Pine	Sawtimber Well	13.9	105	111-140	N/A	Red pine and white pine regen is sparse. Pockets of white pine regen. Northern portion of the stand was planted in 1940.																																												
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4	42200 - Natural White Pine	Sawtimber Well	136.5	121	111-140	N/A	Natural white pine stand with red pine, birch, aspen.																																												
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<b>9</b>	4319 - Mixed Upland Forest	Sawtimber Well	119.7	101	111-140	N/A	Stand contains a lot of large diameter white pine, red maple and red pine. Most of the beech has died out of the stand. White birch is mainly in the western side of the stand and is dying off. Supercanopy white pine. Thick subcanopy, a mix of all species, 10-20 ft tall avg. Some of the subcanopy maple and balsam is 4 inch dbh and 20+ ft tall. Almost all of the beech regen and understory has BBD present. Large diameters, fair amount of dead and down material.																																																																										
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<b>11</b>	6233 - Wet Meadow	Nonstocked	1.9		Unspecified	No	Small opening at the end of the abandoned road. Mainly wetland grasses. Stand is wet for a good portion of the year. ORV activity through the stand, rutting.																																																																										
<b>12</b>	6225 - Bog	Nonstocked	1.0		Unspecified	No																																																																											
<b>13</b>	42290 - Natural Mixed Pine	Sawtimber Well	119.6	105	111-140	N/A	Large diameter white pine with red pine and black spruce. Minor component of red maple. Trace to 2% of aspen, white birch and balsam.																																																																										
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<b>14</b>	6229 - Mixed lowland shrub	Nonstocked	6.3		Unspecified	No																																																																											
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17	42290 - Natural Mixed Pine	Sawtimber Well	12.5	123	111-140	N/A	Large diameter white pine with red pine, red maple and hemlock. Areas thicker to white pine, others with more hemlock mixed in. Good maple component throughout. Borders Deer Lake.																																														
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20	500 - Water	Nonstocked	4.9		Unspecified	No	Bullhead Lake																																														
21	6229 - Mixed lowland shrub	Nonstocked	7.7		Unspecified	No																																															
22	4113 - R.Maple, Conifer	Sawtimber Medium	220.1	102	81-110	N/A	Stand has the appearance of "falling apart" due to the high beech component dying out (BBD). Canopy is very open in spots due to the dying beech. Red maple, hemlock and white pine. Mortality showing up in older red maple. Very thick subcanopy of red maple, beech, striped maple. Lots of dead and down material from the beech mortality.																																														
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24	500 - Water	Nonstocked	41.2		Unspecified	No	North Branch Lakes. Almost completely dried up, August 2012. Lakes are full of water, July 2022.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
26	500 - Water	Nonstocked	65.8		Unspecified	No	Camp Eight Lake																																																				
27	42200 - Natural White Pine	Sawtimber Well	498.7	123	141-170	N/A	Large diameter white pine with red pine, red maple, paper birch, aspen and hemlock. Some variability through the stand but all one big complex of natural white pine around the Pretty Lakes quiet area. Areas thicker to white pine, others with more white birch mixed in. Good maple component throughout. Lower areas have more black spruce mixed in. Pretty Lake campground falls within the stand; 18 designated campsites and 8 walk-in sites.																																																				
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28	6239 - Mixed Emergent Wetland	Nonstocked	31.9		Unspecified	No																																																					
29	6121 - Tamarack	Poletimber Poor	10.1	81	1-50	N/A																																																					
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31	6229 - Mixed lowland shrub	Nonstocked	3.2		Unspecified	No																																																					
32	6121 - Tamarack	Poletimber Poor	8.6	81	1-50	N/A																																																					
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35	6225 - Bog	Nonstocked	34.0		Unspecified	No																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
36	500 - Water	Nonstocked	9.4		Unspecified	No	Brush Lake			
37	6229 - Mixed lowland shrub	Nonstocked	77.7		Unspecified	No				
38	6121 - Tamarack	Poletimber Medium	51.2	86	51-80	N/A	Small diameter tamarack with black spruce and some white pine. Substantial mortality, from high water level.			
		<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	25	Pole	8	126	Tag Alder	Medium	5 - 10 feet	Tall Shrub
		White Pine	10	Log/Pole	10		Black Spruce	Low	Variable	Sapling
		Tamarack	65	Pole	6	86				
39	42200 - Natural White Pine	Sawtimber Well	15.6	123	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>
		White Pine	76	Log/XLog/Pole	14	123	Red Maple	Medium	10 - 20 feet	Sapling
		Red Pine	5	Log	12		Black Spruce	Medium	Variable	Sapling
		Red Maple	15	Pole	8		White Pine	Medium	Variable	Sapling
		Quaking Aspen	2	Pole	9					
		Paper Birch	2	Pole	8					
40	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	19.0	136	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>
		Tamarack	35	Pole	8		Black Spruce	Medium	Variable	Sapling
		Paper Birch	5	Pole	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
		Northern White Cedar	35	Pole	9	136	Northern White Cedar	Low	5 - 10 feet	Sapling
		White Pine	5	Pole	9					
		Black Spruce	20	Pole	8					
41	42200 - Natural White Pine	Sawtimber Well	5.8	123	81-110	N/A	White pine ridge, large diameters. White birch is dying out of the stand. Red maple, aspen and red pine. Occasional hemlock. Mix of species in subcanopy.			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Paper Birch	2	Pole	7		White Pine	Medium	Variable	Sapling
		Quaking Aspen	2	Pole	9		Red Maple	Medium	10 - 20 feet	Sapling
		White Pine	76	Log/XLog/Pole	14	123	Black Spruce	Medium	Variable	Sapling
		Red Maple	15	Pole	8					
		Red Pine	5	Log	12					
42	6225 - Bog	Nonstocked	29.2		Unspecified	No				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
<b>43</b>	4319 - Mixed Upland Forest	Sawtimber Well	41.2	101	81-110	N/A	Smaller diameter red maple with large diameter, tall white pine and red pine. Large diameter aspen. Super canopy white pine and red pine.																																															
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Red Pine	5	Log	12																																																			
Quaking Aspen	2	Pole	9																																																			
Red Maple	15	Pole	8																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
52	500 - Water	Nonstocked	4.1		Unspecified	No	Lakes are full of water, July 2022.																																															
53	4113 - R.Maple, Conifer	Sawtimber Medium	112.2	102	81-110	N/A	Stand was originally part of stand 22. Separated due to the higher component of white pine in this stand.																																															
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54	500 - Water	Nonstocked	4.1		Unspecified	No	Small Lake. Almost completely dried up, August 2012. Fair amount of water, July 2022.																																															
55	6229 - Mixed lowland shrub	Nonstocked	5.7		Unspecified	No																																																
56	42290 - Natural Mixed Pine	Sawtimber Well	9.9	123	111-140	N/A	Large diameter white pine with red pine, red maple and hemlock. Areas thicker to white pine, others with more hemlock mixed in. Good maple component throughout. Borders a small lake.																																															
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57	500 - Water	Nonstocked	15.5		Unspecified	No	Otter Lake																																															
59	6229 - Mixed lowland shrub	Nonstocked	3.1		Unspecified	No																																																
60	6120 - Lowland Cedar	Poletimber Well	63.9	151	81-110	N/A	Western half of the stand was acquired in 2018 as part of TNC trade.																																															
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<b>61</b>	6127 - Lowland Pine	Sawtimber Well	32.4	104	111-140	N/A	Large diameter white pine with smaller spruce, maple, scattered large aspen. Pockets of hemlock. Much of the stand is lower ground than other white pine stands in the area.																																														
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<b>63</b>	6229 - Mixed lowland shrub	Nonstocked	7.1		Unspecified	No																																															
<b>64</b>	6229 - Mixed lowland shrub	Nonstocked	17.3		Unspecified	No	Lowland shrub with small beaver pond. Pretty good amount of water in July 2022.																																														
<b>65</b>	500 - Water	Nonstocked	1.5		Unspecified	No																																															
<b>66</b>	6229 - Mixed lowland shrub	Nonstocked	8.9		Unspecified	No																																															
<b>67</b>	500 - Water	Nonstocked	3.5		Unspecified	No	Bob Lake																																														
<b>72</b>	622 - Lowland Shrub	Nonstocked	3.6		Unspecified	No	Acquired in 2018 as part of TNC trade.																																														
<b>73</b>	6225 - Bog	Nonstocked	2.5		Unspecified	No	Acquired in 2018 as part of TNC trade.																																														
<b>75</b>	6122 - Black Spruce	Poletimber Well	9.3	94	Unspecified	N/A	Acquired in 2018 as part of TNC trade.																																														