



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42016

Entry Year 2026

Acreage: 2,060

County Luce

Management Area: Seney Lake Plain

Stand Examiner: Matt Payment

Legal Description:

T48N R11W, Sections 1-11

Identified Planning Goals:

Recreation, timber, and wildlife 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.

Soil and topography:

The soil in this compartment is mostly made up of a complex of sandy soils mixed in with level lowland peat soils. The eastern end of the compartment is mostly level to rolling sand complexes with poorly drained soils mixed throughout. The western end of the compartment is mostly level lowlands that are poorly drained with sand ridges and 'islands' of pine interspersed throughout the lowlands. The sand ridges range from rolling to very steep in places. Forested cover types in the lowlands are typically treed bogs, marsh, lowland conifers and tag alder. The forested cover types on the sandy soil types are typically pine, spruce, birch, and aspen with some of the richer upland soils having maple, beech hemlock and white pine.

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

The compartment is largely state owned with a fair amount of private land and corporate land scattered around and throughout. The Michigan Nature Association owns a '40' near Ladue Lake. The western end of the compartment has mostly avoided heavy timber production due to remoteness, difficult topography and lowland nature. The eastern end of the compartment is more accessible and has seen some recent timber harvesting activity on the corporate private land. The compartment is used for an assortment of recreational opportunities. There are a fair amount of camps on the private land in and around the compartment.

Unique Natural Features:

The entire compartment falls within the boundaries of the Two Hearted River watershed. Ladue Lake, Beavertown Lakes, the North, West, and main branch of the Two Hearted River are all major components of the watershed. The Two Hearted River system is designated as a Natural River. Also located in the compartment is a portion of Michigan Natural Feature that is classified as a Muskeg.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

The entire compartment falls within the boundaries of the Two Hearted River watershed. The Two Hearted River system is designated as a Natural River which has an associated written plan to guide land management activities.

Watershed and Fisheries Considerations:

Bordering this compartment are the North and West Branches of the Two Hearted River, both designated trout streams and included under the Two Hearted Natural River Plan. Brook trout populations in both streams are well intact and popular fisheries. Occasionally, a steelhead (rainbow trout) or Coho salmon can be caught in these river reaches. A minimum buffer of 100 feet should be adhered to when stand treatments are near these two rivers.

Wildlife Habitat Considerations:

Compartment 16 lies within the Seney Lake Plain Management Area. The West Branch of the Two Hearted River serves as the southern border of the compartment and the North Branch of the Two Hearted River borders the northern stands in the compartment. The western portion of the compartment is largely comprised of treed bogs and swamps interspersed with mature white pine stands and swamp conifers. The eastern portion of the compartment contains a mix of spruce and white and red pine stands. The current vegetation patterns appear to be reflective of pre-settlement vegetation conditions. Maintaining structural and species diversity as much as possible in harvested stands will help achieve wildlife objectives in this compartment. Leave trees will provide food sources, nest and den locations and improve stand diversity. Conifers and hard mast producing species will be left in aspen final harvests to provide similar benefits. Excellent wildlife travel corridors exist along the rivers. Additional species utilizing this compartment include white-tailed deer, black bear, moose, gray wolf, American marten, beaver, mink, otter, and snowshoe hare.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state, and there is no known potential for occurrences of commercial deposits of metallic or critical minerals in this area. The nearest known active sand/gravel pit is more than two miles northeast. The compartment is dominated by low wetlands, which would inhibit surface mining, even if potential for aggregate resources exist. Furthermore, the compartment might be too far from populated areas (commercial markets) for any aggregate resources present to have much economic value beyond limited use by the county road commission, logging companies, or DNR for local road maintenance. 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:

: The compartment can be accessed via County Road 418. This road is maintained by the Luce County Road Commission. The County has designated this road as seasonal and they do not routinely maintain it as they do other county roads. County Road 418 progressively gets worse as you move west and runs as far as Ladue Lake. Other roads within the compartment are two tracks that lead to private camps.

Survey Needs:

Replace the private/corporate survey corners currently monumented with wooden posts in Sections 8 & 9 with DNR monuments.

Recreational Facilities and Opportunities:

This compartment has an assortment of recreational opportunities such as hiking, hunting, fishing and wildlife viewing. There are a fair number of private hunting camps throughout the compartment.

Fire Protection:

Area is part of the Two Hearted Zone Dispatch Area. Large fire runs are possible. Normal fire suppression response will be marginally effective in this area because of the limited access and mixture of ridges/lowland tree bogs. Risk to private property would be moderate.

Additional Compartment Information:

The bridge that crosses the North Branch of the Two Hearted River on County Road 418 is only rated for 3 Tons. This will have to be addressed if logging is to occur.

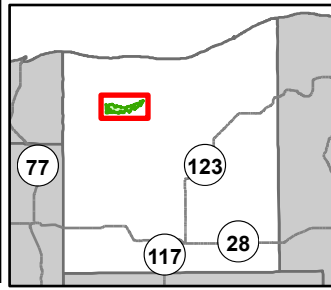
The following reports from the Inventory are attached:

- 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**

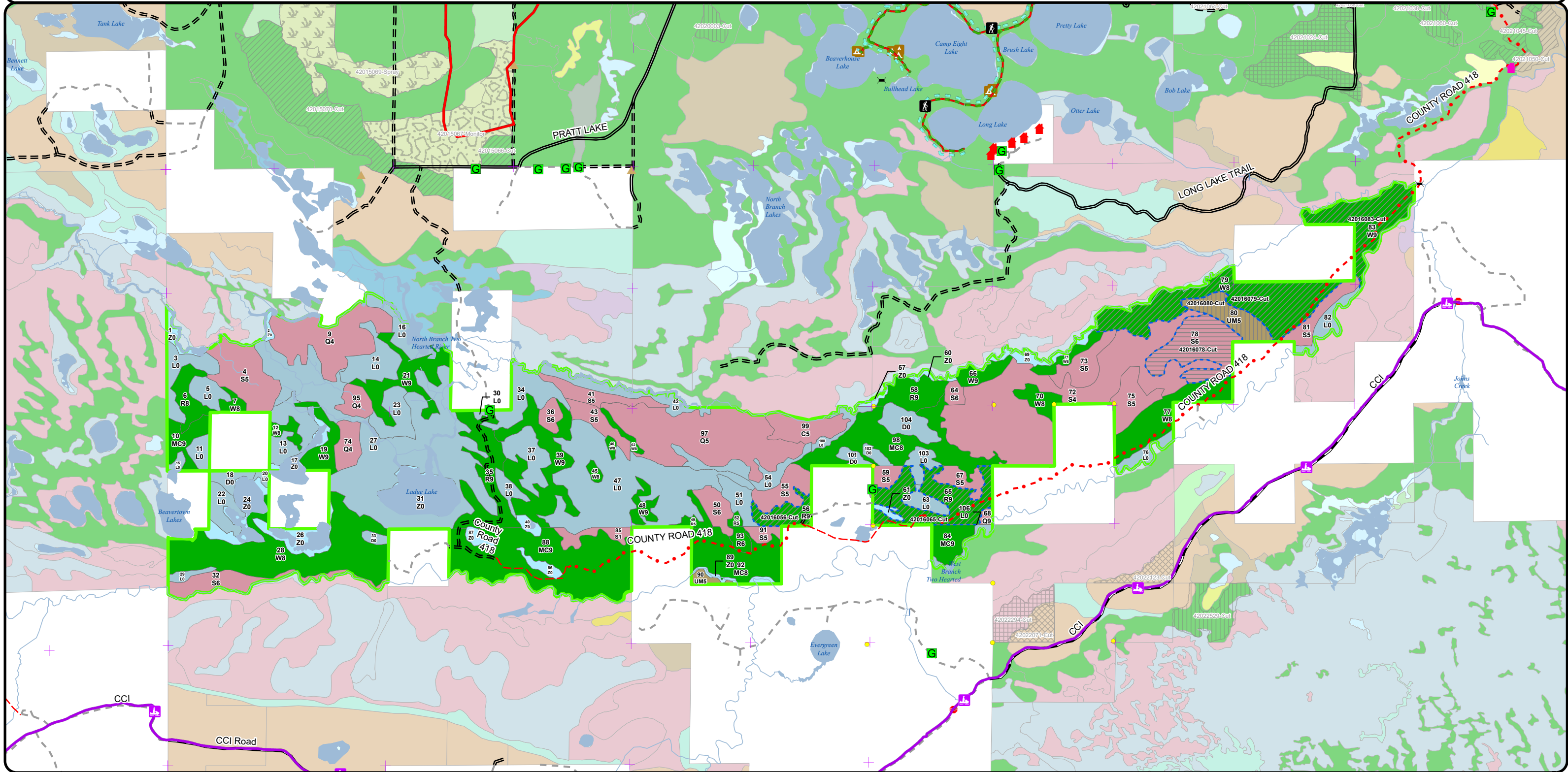
Cover Type & Treatments Map



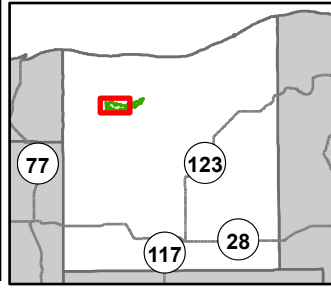
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Compartment: 42016
 T48N, R11W, Sec: 1-11
 County: Luce
 Unit: Newberry
 Mgmt Area: Seney Lake Plain
 YOE: 2026
 Acres: 2060.1 GIS Calculated
 Examiner: Matt Payment
 Map Revised: 08/23/2024
 Map Phase: Web Post

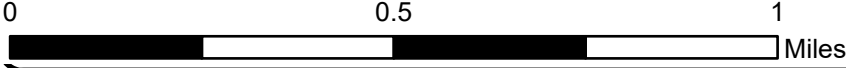
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|------------------------------|------------------------------|-------------------------------|-----------------------------------|---------------------------------|
| Cabin | Survey Grade Corners | DNR - Secondary Forest Road | Perennial River | 430 - Upland Mixed Forest |
| Structure, Seasonal Dwelling | Remonumented Section Corners | DNR - Forest Access Route | Lakes and Rivers | 612 - Lowland Coniferous Forest |
| Berms | Hiking Trails | County - Gravel Road | Compartment Boundary | 500 - Water |
| Gate | Snowmobile Trails | County - Dirt Road (Seasonal) | Treatments with Site Conditions | 622 - Lowland Shrub |
| Bridges | Designated Bicycle Trails | Private - Dirt / Gravel Road | Clearcut (w/Reserves) | |
| Culvert | Designated Snowmobile Trails | Intermittent Stream | Thinning (Crown, Low, Systematic) | |
| Campground | Designated ATV Trails | Island in Lake or River | Shelter Wood (w/Reserves) | |
| Sign | DNR - Primary Forest Road | Lake/Pond | 422 - Natural Pines | |



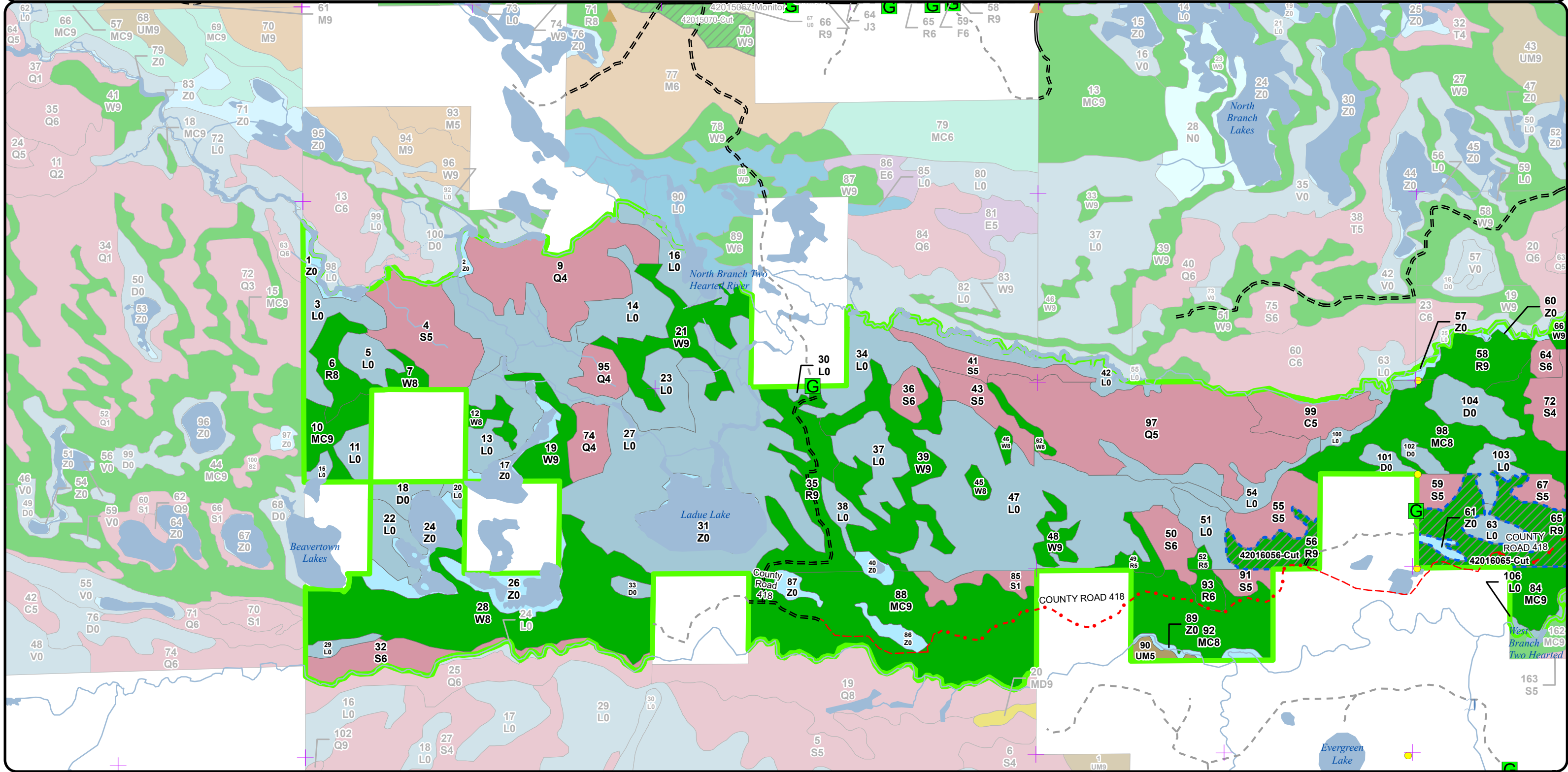
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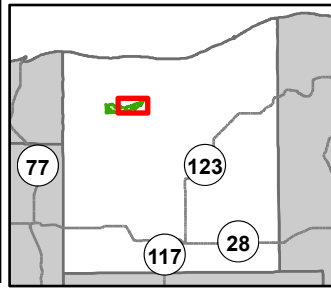
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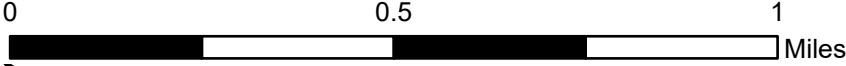
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| Remonumented Section Corners | Intermittent Stream | Treatments with Site Conditions | 622 - Lowland Shrub |
| DNR - Secondary Forest Road | Island in Lake or River | Thinning (Crown, Low, Systematic) | |



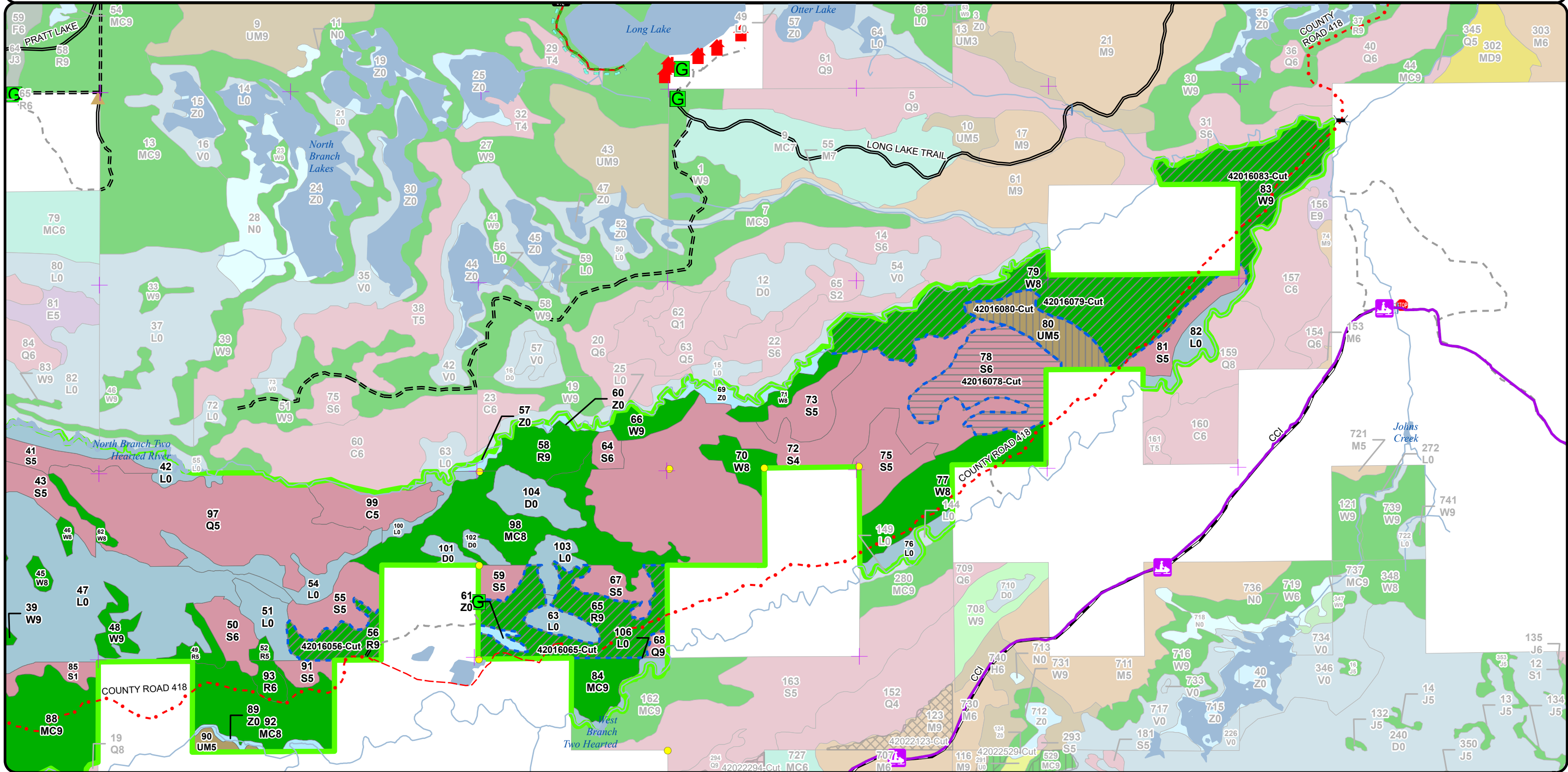
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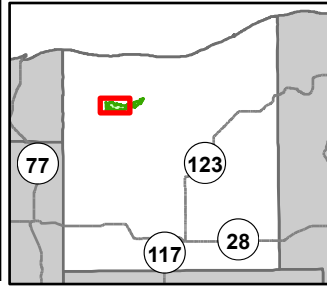
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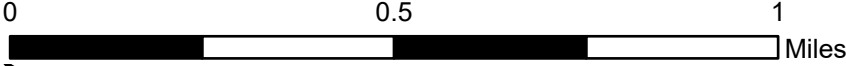
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- Hiking Trails
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- Clearcut (w/Reserves)
- Berms
- Snowmobile Trails
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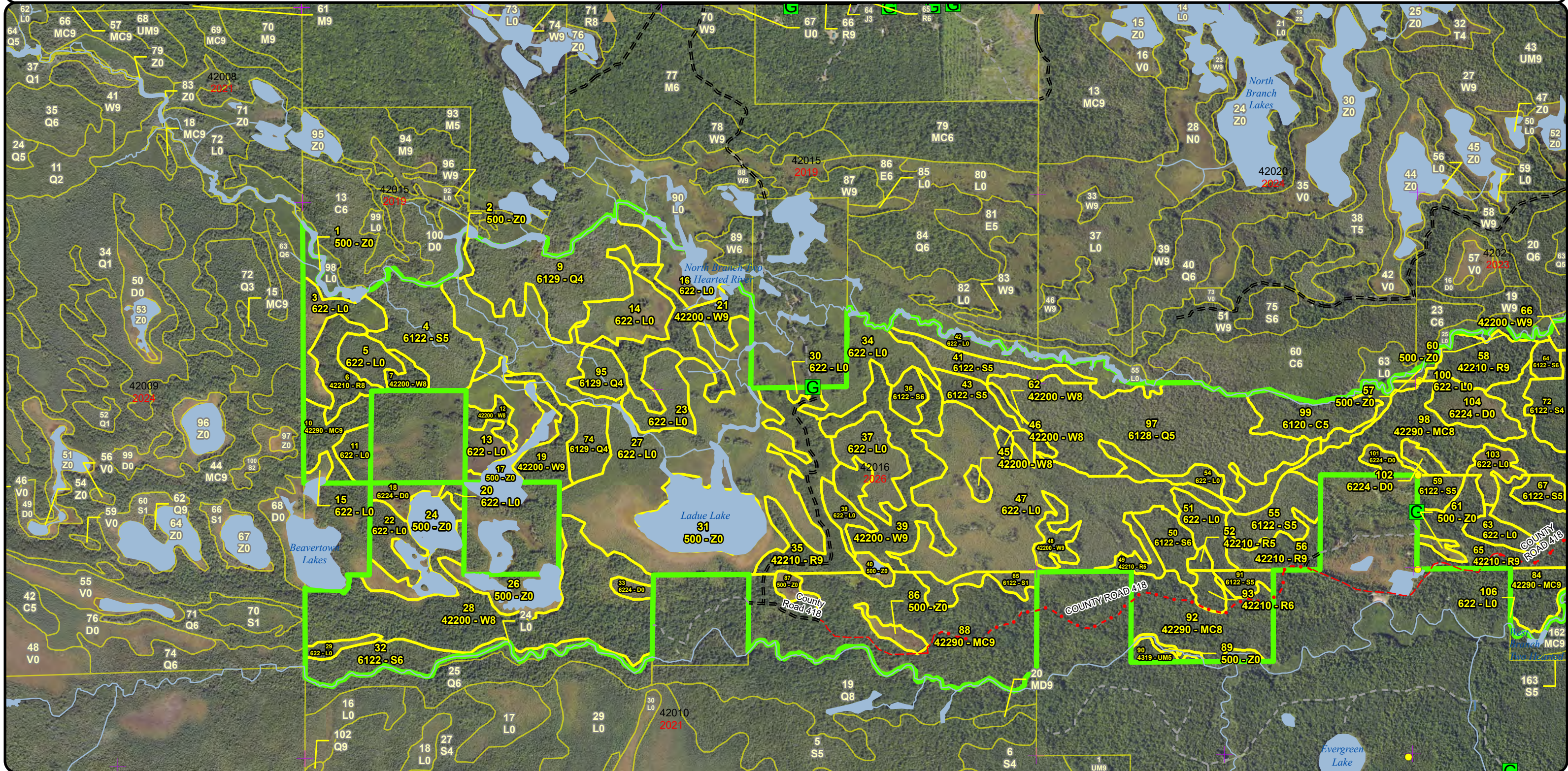
Stand Boundary Map



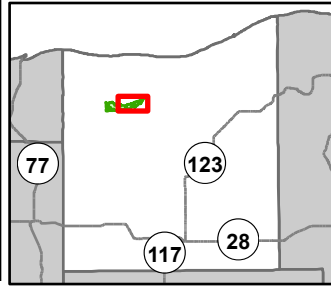
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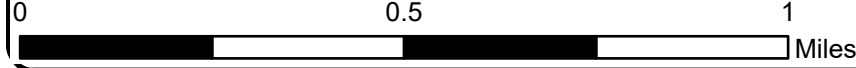
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|--------------------------------|-------------------------------------|---------------------------|---------------------------------|
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| ⌒ Culvert | - - - County - Gravel Road | — Perennial River | 612 - Lowland Coniferous Forest |
| ● Survey Grade Corners | - - - County - Dirt Road (Seasonal) | — Lakes and Rivers | 500 - Water |
| ⊕ Remonumented Section Corners | - - - Private - Dirt / Gravel Road | — Compartment Boundary | 622 - Lowland Shrub |
| | — Intermittent Stream | — Stand Boundaries | |



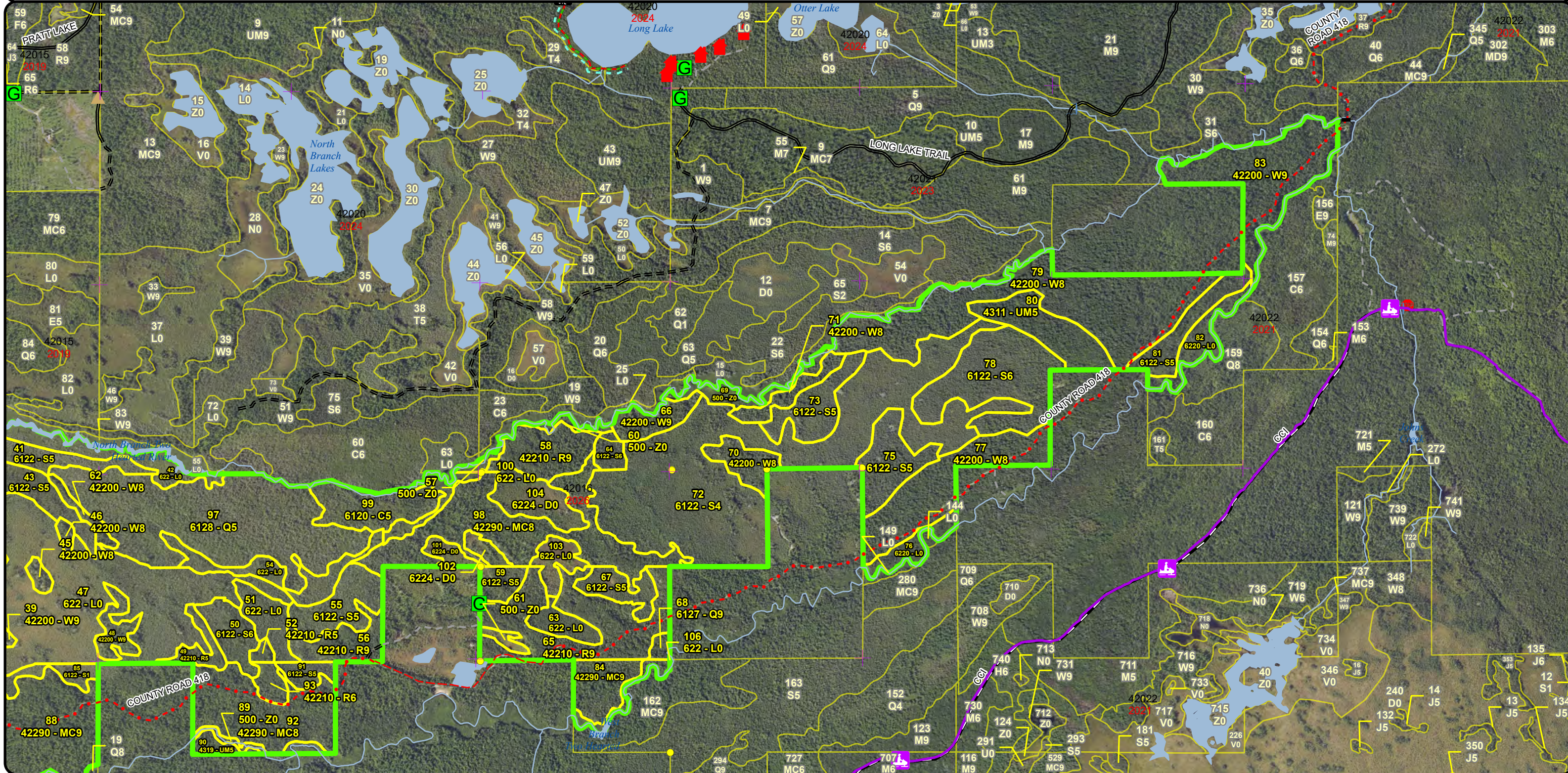
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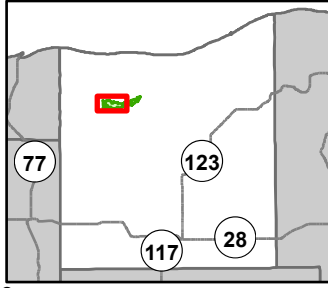


- Cabin
- Berms
- Gate
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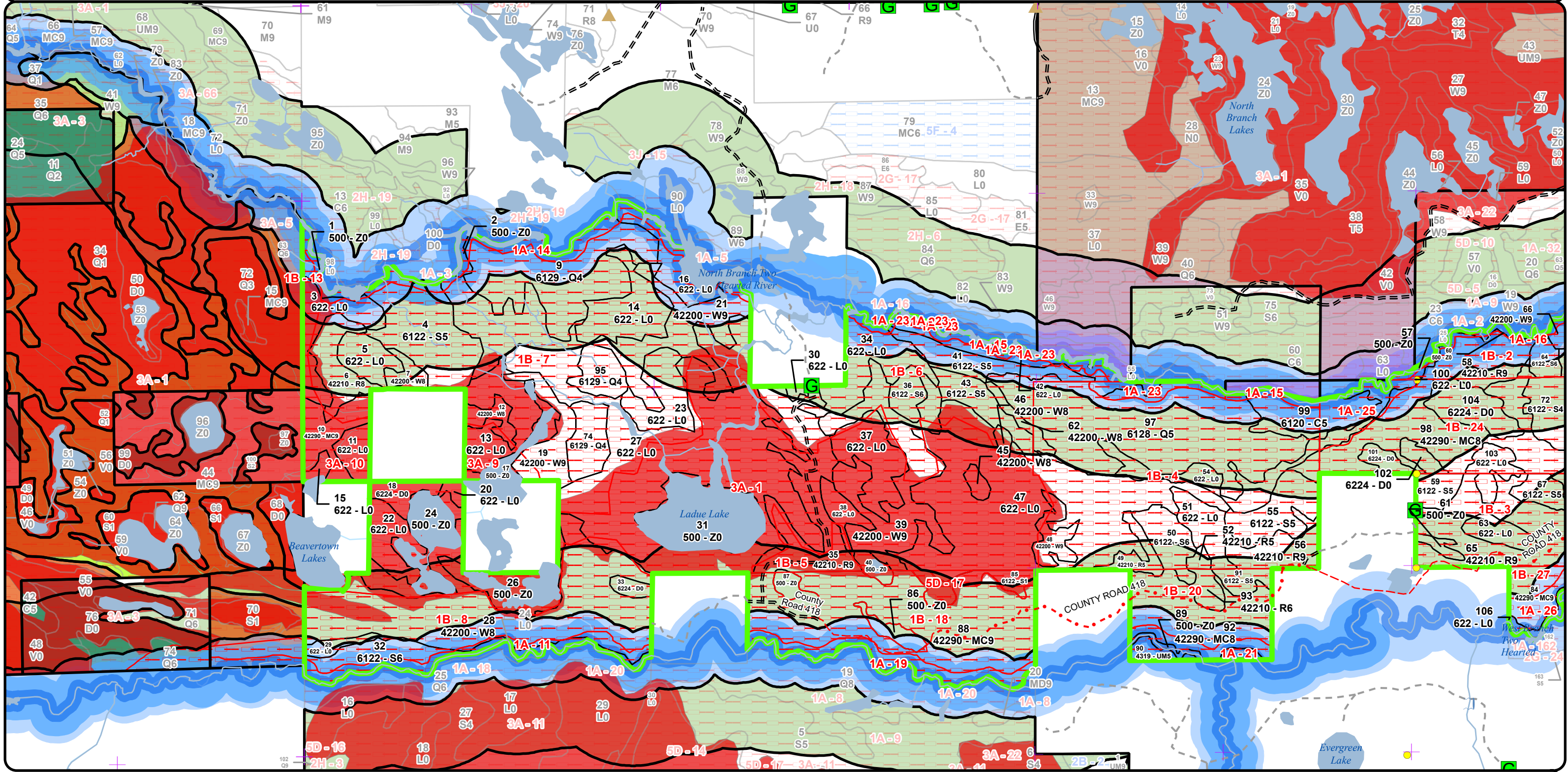
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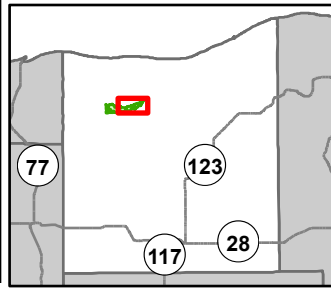


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- Compartment Boundary
- SCA

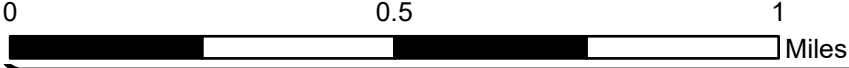
- SCA Removal
- Unavailable
- 1A: Federal/State/Local Law
- 1B: Non-DNR agency concerns (e.g. USFS)
- 3A: Conservation Values incompatible with harvest at this time
- 5D: Unproductive Forest Land
- Stand Boundaries
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Forest Habitat Core Interior
- Cold Water Streams
- High Priority Trout Stream Buffer
- Habitat Corridor
- Other Habitat Area
- Recreational/Scenic Value Area
- Possible Type 2 Old Growth



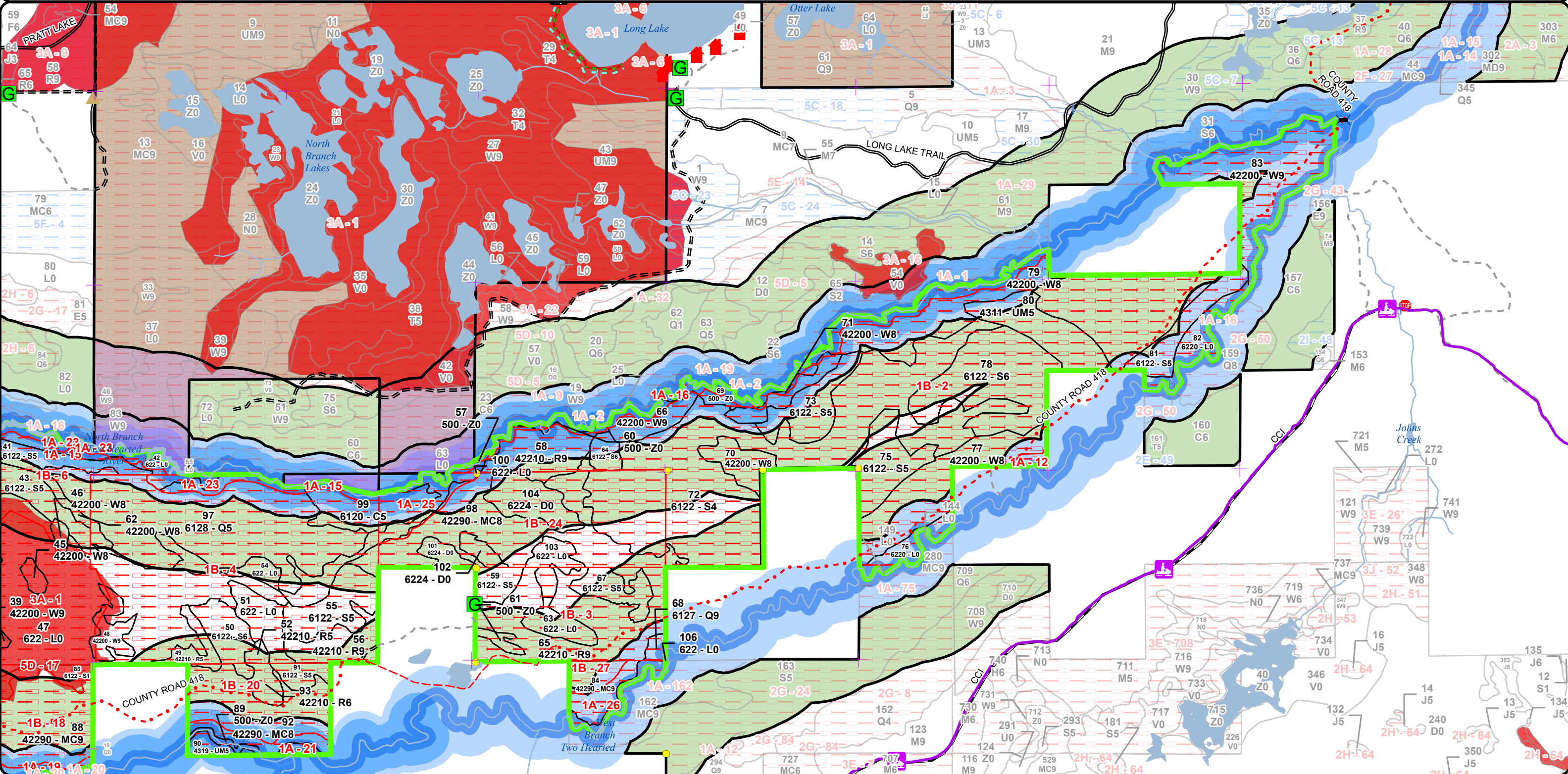
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Report 1 – Total Acres by Cover Type and Age Class



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
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	20
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	172	0	0	0	0	0	172
Lowland Shrub	535	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	535
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	9	0	163	183	37	0	0	0	0	0	391
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	212	0	14	0	0	0	0	225
Red Pine	0	0	0	0	0	0	0	0	0	0	0	106	0	39	0	0	0	0	144
Treed Bog	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	24
Water	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	115
White Pine	0	0	0	0	0	0	0	0	0	0	31	293	63	0	0	0	0	15	402
Total	682	0	0	0	0	0	0	0	9	0	194	818	292	53	0	0	0	15	2060



Report 2 – Treatment Summary

Newberry Mgt. Unit
Year of Entry: 2026

Acres of Harvest

Compartment 16
Total Compartment Acres: 2,060

Commercial Harvest -
 Harvests with Site Condition - 246
 Next Step Harvest - 21
 Habitat Cut - 21

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Lowland Spruce/Fir	42	0	0	0	0	0	0	0	0	42
Red Pine	0	0	0	0	0	60	0	0	0	60
Upland Mixed Forest	0	0	0	0	21	0	0	0	0	21
White Pine	0	0	0	0	0	122	0	0	0	122
Total	42	0	0	0	21	183	0	0	0	246

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	246	0	0	0	0	0	0	0	0	246
Next Step	21	0	0	0	0	0	42	0	0	63
Total	266	0	0	0	0	0	42	0	0	309



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	Habitat
											Cut

Proposed Treatments:

56	42016056-Cut	14.0	42210 - Natural Red Pine	Sawtimber Well	109	171-200	Harvest	Crown Thinning	42210 - Natural Red Pine	Uneven-Aged	No
<p><u>Prescription</u> Crown Thinning. Thin stand to 80-100 BA. Leave component of larger red and white pine in the canopy. Leave a component of aspen and paper birch. Buffer stands along wet areas 50-100 ft. Follow Natural River Plan (within 1/4 mile of river). Follow Natural Pine Guidance.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Non-DNR agency concerns</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											

65	42016065-Cut	46.4	42210 - Natural Red Pine	Sawtimber Well	109	141-170	Harvest	Crown Thinning	42210 - Natural Red Pine	Uneven-Aged	No
<p><u>Prescription</u> Thin stand to 80-100 BA. Leave component of larger red and white pine in the canopy. Leave all aspen and paper birch. Cut stand in winter or dry summer. Buffer low wet areas 50-100 ft. Follow Natural River Plan. Follow Natural Pine Guidance.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Non-DNR agency concerns</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											

78	42016078-Cut	42.3	6122 - Black Spruce	Poletimber Well	104	111-140	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Cut all Black Spruce. Leaved 1-3 white pine per acre. Cut in winter or dry summer. Buffer low wet areas 50-100 ft. Follow Natural River Plan (within 1/4 mile of river).</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</u> spruce & mixed lowland species.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Non-DNR agency concerns</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											



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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
79 42016079-Cut	78.8	42200 - Natural White Pine	Sawtimber Medium	101	111-140	Harvest	Crown Thinning	4220 - Natural White Pine	Uneven-Aged	No
<p><u>Prescription</u> Crown thinning. Thin stand to 80-100 BA. Leave component of larger white pine in the canopy. Leave component of other species present.</p> <p><u>Specs:</u> Concentrate leaving larger white pine along the river. Leave larger diameter aspen for Pileated Woodpecker. 100' buffer along river shown on treatment. Follow Natural River Plan.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> species present in the stand.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Non-DNR agency concerns</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
80 42016080-Cut	20.7	4311 - Pine, Aspen Mix	Poletimber Medium	105	111-140	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Uneven-Aged	No
<p><u>Prescription</u> Shelterwood with Reserves. Remove poor quality white pine and red maple and cut all aspen. Residual BA 50-60 sq ft total.</p> <p><u>Specs:</u> Leave some balsam fir, red maple, and paper birch for retention and cut remaining to reach basal area range. Leave large aspen in areas with red pine. Follow Natural River Plan.</p> <p><u>Next Step</u> Harvest, Shelterwood with Retention</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed deciduous species.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Non-DNR agency concerns</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
83 42016083-Cut	43.3	42200 - Natural White Pine	Sawtimber Well	113	111-140	Harvest	Crown Thinning	4220 - Natural White Pine	Uneven-Aged	No
<p><u>Prescription</u> Crown thinning. Thin stand to 80-100 BA. Leave component of larger red and white pine in the canopy. Leave component of other species present.</p> <p><u>Specs:</u> Concentrate leaving larger white pine along the river. Leave Larger diameter aspen for Pileated Woodpecker. 100' buffer along river shown on treatment. Follow Natural River Plan. Follow Natural Pine Guidance.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> species present in the stand.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Non-DNR agency concerns</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

Total Treatment 245.5
Acres Proposed:

Report 4 – Site Conditions

Newberry Mgt. Unit
Matt Payment : Examiner

Compartment: 16
Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions			
		With Condition				1A	1B	3A	5D
20	0	0		20	Cedar	10	10		
173	0	0		173	Lowland Conifers	14	159		
536	2	0		533	Lowland Shrub	33	286	215	
391	2	0		390	Lowland Spruce/Fir	15	365	0	9
226	0	0		226	Natural Mixed Pines	32	183	11	
144	0	0		144	Red Pine	1	127	16	
32	0	0		32	Treed Bog		25	6	
24	0	0		24	Upland Mixed Forest	4	21		
115	9	0		106	Water	19	12	75	
401	1	0		400	White Pine	22	331	48	
2,060	14			2,046	Total Forested Acres	149	1,519	370	9
	1%			99%	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	329	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA							
2	Unavailable	1B: Non-DNR agency concerns (e.g. USFS)	442	1A: Federal/State/Local Law	Unspecified	Unspecified	Unspecified
Comments: County Road 418 bridge is only rated for 5 tons. County has no plans of replacing bridge. Two Hearted River Natural River Plan							
3	Unavailable	1B: Non-DNR agency concerns (e.g. USFS)	79	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments: County Road 418 bridge is only rated for 5 tons. County has no plans of replacing bridge.							

Report 4 – Site Conditions

Newberry Mgt. Unit
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4	Unavailable	1B: Non-DNR agency concerns (e.g. USFS)	220	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments: County Road 418 bridge is only rated for 5 tons. County has no plans of replacing bridge.							
5	Unavailable	1B: Non-DNR agency concerns (e.g. USFS)	13	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments: County Road 418 bridge is only rated for 5 tons. County has no plans of replacing bridge.							
6	Unavailable	1B: Non-DNR agency concerns (e.g. USFS)	109	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments: County Road 418 bridge is only rated for 5 tons. County has no plans of replacing bridge.							
7	Unavailable	1B: Non-DNR agency concerns (e.g. USFS)	315	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2I: Survey needed	2E: Road needed	Unspecified
Comments: County Road 418 bridge is only rated for 5 tons. County has no plans of replacing bridge.							
8	Unavailable	1B: Non-DNR agency concerns (e.g. USFS)	113	1A: Federal/State/Local Law	2I: Survey needed	Unspecified	Unspecified
Comments: Natural river management zone. County Road 418 bridge is only rated for 5 tons. County has no plans of replacing bridge.							
9	Unavailable	3A: Conservation Values incompatible with harvest at this time	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA							

Report 4 – Site Conditions

Newberry Mgt. Unit
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Compartment: 16
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10	Unavailable	3A: Conservation Values incompatible with harvest at this time	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA							
11	Unavailable	1A: Federal/State/Local Law	21	2I: Survey needed	1B: Non-DNR agency concerns (e.g. USFS)	Unspecified	Unspecified
Comments: Natural river management zone. County Road 418 bridge is only rated for 5 tons. County has no plans of replacing bridge.							
12	Unavailable	1A: Federal/State/Local Law	2	1B: Non-DNR agency concerns (e.g. USFS)	Unspecified	Unspecified	Unspecified
Comments: County Road 418 bridge is only rated for 5 tons. County has no plans of replacing bridge. Natural river management zone							
13	Unavailable	1B: Non-DNR agency concerns (e.g. USFS)	1	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments: County Road 418 bridge is only rated for 5 tons. County has no plans of replacing bridge.							
14	Unavailable	1A: Federal/State/Local Law	25	1B: Non-DNR agency concerns (e.g. USFS)	Unspecified	Unspecified	Unspecified
Comments: County Road 418 bridge is only rated for 5 tons. County has no plans of replacing bridge. Two Hearted Natural River Plan							
15	Unavailable	1A: Federal/State/Local Law	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: County Road 418 bridge is only rated for 5 tons. County has no plans of replacing bridge. Two Hearted Natural River Plan							

Report 4 – Site Conditions

Newberry Mgt. Unit
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16	Unavailable	1A: Federal/State/Local Law	25	1B: Non-DNR agency concerns (e.g. USFS)	Unspecified	Unspecified	Unspecified
<p>Comments: Two Hearted Natural River Plan County Road 418 bridge is only rated for 5 tons. County has no plans of replacing bridge.</p> <p>Two Hearted River Natural River Plan</p>							
17	Unavailable	5D: Unproductive Forest Land	9	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
18	Unavailable	1B: Non-DNR agency concerns (e.g. USFS)	87	1A: Federal/State/Local Law	2I: Survey needed	Unspecified	Unspecified
<p>Comments: Natural river management zone. County Road 418 bridge is only rated for 5 tons. County has no plans of replacing bridge.</p>							
19	Unavailable	1A: Federal/State/Local Law	16	1B: Non-DNR agency concerns (e.g. USFS)	2I: Survey needed	Unspecified	Unspecified
<p>Comments: Natural river management zone. County Road 418 bridge is only rated for 5 tons. County has no plans of replacing bridge.</p>							
20	Unavailable	1B: Non-DNR agency concerns (e.g. USFS)	44	2I: Survey needed	Unspecified	Unspecified	Unspecified
<p>Comments: Natural river management zone. County Road 418 bridge is only rated for 5 tons. County has no plans of replacing bridge.</p>							
21	Unavailable	1A: Federal/State/Local Law	14	1B: Non-DNR agency concerns (e.g. USFS)	2I: Survey needed	Unspecified	Unspecified
<p>Comments: Natural river management zone. County Road 418 bridge is only rated for 5 tons. County has no plans of replacing bridge.</p>							

Report 4 – Site Conditions

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23	Unavailable	1A: Federal/State/Local Law	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: County Road 418 bridge is only rated for 5 tons. County has no plans of replacing bridge.							
24	Unavailable	1B: Non-DNR agency concerns (e.g. USFS)	103	Unspecified	Unspecified	Unspecified	Unspecified
Comments: County Road 418 bridge is only rated for 5 tons. County has no plans of replacing bridge.							
25	Unavailable	1A: Federal/State/Local Law	15	1B: Non-DNR agency concerns (e.g. USFS)	Unspecified	Unspecified	Unspecified
Comments: Two Hearted River Natural River Plan. County Road 418 bridge is only rated for 5 tons. County has no plans of replacing bridge.							
26	Unavailable	1A: Federal/State/Local Law	12	1B: Non-DNR agency concerns (e.g. USFS)	Unspecified	Unspecified	Unspecified
Comments: Two Hearted River Natural River Plan. County Road 418 bridge is only rated for 5 tons. County has no plans of replacing bridge.							
27	Unavailable	1B: Non-DNR agency concerns (e.g. USFS)	6	1A: Federal/State/Local Law	2I: Survey needed	Unspecified	Unspecified
Comments: Two Hearted River Natural River Plan. County Road 418 bridge is only rated for 5 tons. County has no plans of replacing bridge.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



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.

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	500 - Water	Nonstocked	4.9		Unspecified	No																																									
2	500 - Water	Nonstocked	2.1		Unspecified	No																																									
3	622 - Lowland Shrub	Nonstocked	16.0		Unspecified	No																																									
4	6122 - Black Spruce	Poletimber Medium	35.5	100	81-110	N/A	Stand is heavy to Black Spruce and White Cedar. Stand is old and dying out it places.																																								
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5	622 - Lowland Shrub	Nonstocked	9.7		Unspecified	No																																									
6	42210 - Natural Red Pine	Sawtimber Medium	13.7	100	141-170	N/A	A ridge of red pine and white pine, heavier white pine to the south end. The red pine is utility pole size along the ridge. Some aspen, balsam fir, and paper birch scattered throughout the stand. Potential old growth in the stand.																																								
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7	42200 - Natural White Pine	Sawtimber Medium	4.7	103	81-110	N/A	White and red pine mixed with aspen and red maple. An isolated stand with multiple lightning scars. Small amount of paper birch present.																																								
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9	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	55.0	110	81-110	N/A	Stand consists of varying conifer species and a few select deciduous species. Stand is low and wet in many places.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
10	42290 - Natural Mixed Pine	Sawtimber Well	14.3	122	111-140	N/A	This stand has evidence of a high intensity fire. There are many large burnt stumps and standing snags present throughout the stand. The dominate cover type is White/Red pine. MNFI identifies an element community of Dry-mesic Northern Forest that overlays the majority of this stand.																																											
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12	42200 - Natural White Pine	Sawtimber Medium	5.4	109	171-200	N/A	Large overstory white pine with smaller red pine mixed within. Stand is an isolated island with remote access. Access issues with CR 418 bridge weight limit.																																											
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14	622 - Lowland Shrub	Nonstocked	19.8		Unspecified	No																																												
15	622 - Lowland Shrub	Nonstocked	2.3		Unspecified	No																																												
16	622 - Lowland Shrub	Nonstocked	14.9		Unspecified	No																																												
17	500 - Water	Nonstocked	8.7		Unspecified	No																																												
18	6224 - Treed Bog	Nonstocked	6.4		Unspecified	No																																												
19	42200 - Natural White Pine	Sawtimber Well	14.7	101	141-170	N/A	Log size pine stand with remote access to the stand. Located near ERA and natural rivers.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
21	42200 - Natural White Pine	Sawtimber Well	30.6	99	171-200	N/A	Isolated island with cedar along edges of the ridge. No access, surrounded by low wet ground and falls in the Two Hearted River Plan.																																																						
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22	622 - Lowland Shrub	Nonstocked	11.9		Unspecified	No	Lowland wet ground with white pine and spruce. Surrounded by water and marshes.																																																						
23	622 - Lowland Shrub	Nonstocked	15.7		Unspecified	No																																																							
24	500 - Water	Nonstocked	21.4		Unspecified	No																																																							
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27	622 - Lowland Shrub	Nonstocked	162.7		Unspecified	No																																																							
28	42200 - Natural White Pine	Sawtimber Medium	97.2	103	171-200	N/A	Some scattered aspen throughout stand along with some paper birch. White pine in the stand are large and limby. Access is through Michigan Nature Conservancy. Stand falls within natural river plan.																																																						
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29	622 - Lowland Shrub	Nonstocked	3.5		Unspecified	No																																																							
30	622 - Lowland Shrub	Nonstocked	1.1		Unspecified	No																																																							
31	500 - Water	Nonstocked	30.8		Unspecified	No																																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
32	6122 - Black Spruce	Poletimber Well	22.5	119	Unspecified	N/A	Remote stand with no easy access, and the timber quality is very poor. A few paper birch scattered throughout the stand.																																											
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33	6224 - Treed Bog	Nonstocked	2.9		Unspecified	No																																												
34	622 - Lowland Shrub	Nonstocked	22.5		Unspecified	No																																												
35	42210 - Natural Red Pine	Sawtimber Well	38.5	121	171-200	N/A	Some red oak along the ridge that is the stand along with some aspen and paper birch that is dying out. There is an old road through the stand, but it is hard to access due to some low wet areas and large sand hills.																																											
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36	6122 - Black Spruce	Poletimber Well	6.3	109	141-170	N/A	A remote stand that needs a road to it. Some mixed red maple along edges of the stand. Natural River plan applies. CR 418 bridge weight limit applies as well.																																											
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38	622 - Lowland Shrub	Nonstocked	6.2		Unspecified	No																																												
39	42200 - Natural White Pine	Sawtimber Well	45.7	108	141-170	N/A	Stand is a ridge which consists of decent white and red pine mixed with paper birch, red maple, and black spruce. Stand has large rolling hills it.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
41	6122 - Black Spruce	Poletimber Medium	14.4	107	Unspecified	N/A	Stand is a very low wet area that has very thick timber. Access would be very difficult.																																						
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42	622 - Lowland Shrub	Nonstocked	18.4		Unspecified	No																																							
43	6122 - Black Spruce	Poletimber Medium	12.1	101	111-140	N/A	Stand appears to be stunted, with some tree mortality. Stand is a mixed bag of lowland conifers with scattered red maple and paper birch throughout.																																						
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45	42200 - Natural White Pine	Sawtimber Medium	2.6	103	111-140	N/A	Island of white pine with paper birch dying out and black spruce scattered throughout and along the edges. Some red maple scattered within stand. Remote access to the stand and CR 418 bridge weight restrictions.																																						
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48	42200 - Natural White Pine	Sawtimber Well	8.1	114	141-170	N/A	Island of white pine surrounded by low wet ground. Difficult to access. Some scattered red pine throughout the stand. The paper birch is dying out in the stand.																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
50	6122 - Black Spruce	Poletimber Well	11.6	96	81-110	N/A	Stand is dominantly black spruce with some tamarack scatered throughout. Low basal areas in and around some of the openings within the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Tamarack		10	Pole	8		Tamarack		Low	5 - 10 feet	Sapling
Black Spruce		90	Pole	7	96	Black Spruce		Medium	< 5 feet	Sapling
51	622 - Lowland Shrub	Nonstocked	10.9		Unspecified	No				
52	42210 - Natural Red Pine	Poletimber Medium	1.8	106	111-140	N/A	Stand is a ridge of nice red pine. Some scattered paper birch in stand with a small amount of red maple. No access to stand except through private due to being surrounded by low wet ground.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		15	Log/Pole	12		White Pine		Low	< 5 feet	Sapling
Red Pine		85	Pole/Log	11	106	Black Spruce		Medium	5 - 10 feet	Sapling
54	622 - Lowland Shrub	Nonstocked	15.8		Unspecified	No				
55	6122 - Black Spruce	Poletimber Medium	17.5	109	81-110	N/A	Stand is very low and wet. It has some white pine scattered throughout. Very tough access. CR 418 bridge weight restrictions.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern White Cedar		10	Pole	7		Black Spruce		Medium	5 - 10 feet	Sapling
Yellow Birch		2	Pole	7						
Red Maple		15	Pole/Sapling	6						
Paper Birch		5	Pole	8						
Black Spruce		68	Pole	8	109					
56	42210 - Natural Red Pine	Sawtimber Well	14.0	109	171-200	N/A	Stand is along a steep ridge with poor access. There is some very nice utility pole sized red pine in the stand. There is some aspen and paper birch present but appears to be dying out.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		10	Pole	8		Balsam Fir		Medium	5 - 10 feet	Sapling
Paper Birch		5	Pole	8		Black Spruce		Medium	5 - 10 feet	Sapling
Red Pine		65	Log	14	109					
White Pine		20	Log/Pole	12						
57	500 - Water	Nonstocked	2.1		Unspecified	No				
58	42210 - Natural Red Pine	Sawtimber Well	18.6	109	201+	N/A	This stand is difficult to access due to surrounding private and the Natural River Plan.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		15	Log/Pole	12		Balsam Fir		Medium	Variable	Sapling
Red Pine		80	Log	15	109	Black Spruce		Medium	Variable	Sapling
Black Spruce		5	Pole	7						



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59	6122 - Black Spruce	Poletimber Medium	6.2	109	81-110	N/A																																				
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62	42200 - Natural White Pine	Sawtimber Medium	4.0	113	111-140	N/A	Acquired in 2018 as part of TNC trade.																																			
63	622 - Lowland Shrub	Nonstocked	7.5		Unspecified	No																																				
64	6122 - Black Spruce	Poletimber Well	4.5	109	81-110	N/A	Stand is next to the Two Hearted river and access is through private property. Surrounded by a treed bog. Follow Natural River Plan.																																			
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65	42210 - Natural Red Pine	Sawtimber Well	46.4	109	141-170	N/A	Some paper birch and aspen present in the stand but is beginning to die out. The stand a ridge surrounded by a treed bog. Access remote due to weight retriCTION																																			
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66	42200 - Natural White Pine	Sawtimber Well	9.8	104	141-170	N/A	Stand has some scattered aspen in it dying out. Stand is surrounded by low wet ground making access difficult. Access would be through private and it is near the Two Hearted River.																																			
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67	6122 - Black Spruce	Poletimber Medium	9.9	100	111-140	N/A	Mixed spruce stand with few islands of red and white pine. Portions fall in the natural river plan.																																			
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68	6127 - Lowland Pine	Sawtimber Well	2.1	116	81-110	N/A	Thick understory along the river consisting mainly of black spruce and balsam fir. Stand is comprised of coniferous species with yellow birch and red maple as well. Low wet ground within stand makes for hard access. Stand is also located at the base of a ridge.																																															
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69	500 - Water	Nonstocked	8.3		Unspecified	No																																																
70	42200 - Natural White Pine	Sawtimber Medium	9.8	107	141-170	N/A	Stand is an island in the middle of a treed bog. There is some white cedar scattered throughout the stand. Difficult access.																																															
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71	42200 - Natural White Pine	Sawtimber Medium	7.8	111	111-140	N/A	Island of white pine with black spruce along river. Low wet ground. No or difficult access through private.																																															
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72	6122 - Black Spruce	Poletimber Poor	146.3	90	1-50	N/A																																																
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73	6122 - Black Spruce	Poletimber Medium	16.1	109	81-110	N/A	Ground is extremely wet and there is no access to the stand. Stand is solely black spruce.																																															
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74	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	11.8	110	81-110	N/A	Stand consists of varying conifer species and a few select deciduous species. Stand is low and wet in many places.																																												
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75	6122 - Black Spruce	Poletimber Medium	18.3	109	81-110	N/A	Wet stand of black spruce. Very sparse white pine scattered throughout the stand.																																												
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76	6220 - Alder/willow	Nonstocked	7.6		Unspecified	No	Two Hearted River flood plain.																																												
77	42200 - Natural White Pine	Sawtimber Medium	36.2	106	81-110	N/A	Some scattered paper birch scattered throughout stand comprised mainly of white pine.																																												
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78	6122 - Black Spruce	Poletimber Well	42.3	104	111-140	N/A	Stand is in low wet area. There is some scattered white pine mixed in.																																												
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79	42200 - Natural White Pine	Sawtimber Medium	78.8	101	111-140	N/A	There is good diversity in this stand. Some scattered black cherry and jack pine in the stand.																																												
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80	4311 - Pine, Aspen Mix	Poletimber Medium	20.7	105	111-140	N/A	Strip of aspen within an area of white pine. White pine is limby and of poor quality. Aspen is in good shape and has not appeared to be dying out yet.																																													
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81	6122 - Black Spruce	Poletimber Medium	13.5	110	81-110	N/A	Mixed stand with some small amounts of paper birch and white cedar scattered throughout. Stand looks old and appears to be dying out.																																													
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82	6220 - Alder/willow	Nonstocked	10.4		Unspecified	No	Stand is in the flood plain of the river and has some larger diameter trees in it but is comprised mainly of Tag Alder along the river bottom.																																													
83	42200 - Natural White Pine	Sawtimber Well	43.3	113	111-140	N/A	White pine in the stand have poor form and are limby and brushy. Some scattered red pine along the river. There is aspen and paper birch present and dying out. CR 418 bridge weight restrictions and Natural River Plan.																																													
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84	42290 - Natural Mixed Pine	Sawtimber Well	13.9	105	81-110	N/A	Acquired in 2018 as part of TNC trade.																																													
85	6122 - Black Spruce	Sapling Poor	9.0	75	1-50	N/A	Acquired in 2018 as part of TNC trade.																																													
86	500 - Water	Nonstocked	4.5		Unspecified	No	Acquired in 2018 as part of TNC trade.																																													
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88	42290 - Natural Mixed Pine	Sawtimber Well	103.2	105	111-140	N/A	Acquired in 2018 as part of TNC trade.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
90	4319 - Mixed Upland Forest	Poletimber Medium	3.7	105	81-110	N/A	Acquired in 2018 as part of TNC trade.																																								
91	6122 - Black Spruce	Poletimber Medium	5.2	95	81-110	N/A	Acquired in 2018 as part of TNC trade.																																								
92	42290 - Natural Mixed Pine	Sawtimber Medium	39.1	105	81-110	N/A	Acquired in 2018 as part of TNC trade.																																								
93	42210 - Natural Red Pine	Poletimber Well	4.7	105	111-140	N/A	Acquired in 2018 as part of TNC trade.																																								
95	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	9.6	110	81-110	N/A	Stand consists of varying conifer species and a few select deciduous species. Stand is low and wet in many places.																																								
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Tamarack	15	Pole	7																																												
97	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	94.0	110	81-110	N/A	Acquired in 2018 as part of TNC trade. Mixed stand lowland conifers with mixed deciduous species. Wet ground and falls in the Natural River zone. Access is difficult with no roads present into the stand.																																								
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98	42290 - Natural Mixed Pine	Sawtimber Medium	55.4	105	51-80	N/A	Acquired in 2018 as part of TNC trade.																																								
99	6120 - Lowland Cedar	Poletimber Medium	19.8	119	51-80	N/A	Acquired in 2018 as part of TNC trade.																																								
100	622 - Lowland Shrub	Nonstocked	6.3		Unspecified	No	Acquired in 2018 as part of TNC trade.																																								
101	6224 - Treed Bog	Nonstocked	4.2	0	Unspecified	No	Acquired in 2018 as part of TNC trade.																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
102	6224 - Treed Bog	Nonstocked	3.6		Unspecified	No	Acquired in 2018 as part of TNC trade.
103	622 - Lowland Shrub	Nonstocked	7.9		Unspecified	No	Acquired in 2018 as part of TNC trade.
104	6224 - Treed Bog	Nonstocked	14.6		Unspecified	No	Acquired in 2018 as part of TNC trade.
106	622 - Lowland Shrub	Nonstocked	4.3		Unspecified	No	Acquired in 2018 as part of TNC trade.