



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32210

Entry Year 2027

Acreage: 922

County: Marquette

Management Area: Michigamme Highlands

Stand Examiner: Jason Caron

Legal Description:

T48N-R28W, Sections 16,18,20,28

Identified Planning Goals:

Promote sugar maple regeneration within the hardwood cover types via shelterwood and single tree selection management. Clearcut areas of fir, spruce and aspen types to promote regeneration of these species.

Soil and topography:

Glacial drainage ways and moraines form topography that is nearly level to hilly with rock outcroppings. Soils are generally well drained sandy loams to loams.

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

This compartment is predominately surrounded by larger corporate and non-industrial private ownerships. Land use is primarily for timber harvesting and recreation such as hunting, fishing, mushroom & berry picking, and hiking.

Unique Natural Features:

The area contains numerous rock outcrops and steep ridges. The Barnhardt & Brown creek flow easterly through this compartment.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Refer to the Watershed and Fisheries Considerations writeup below.

Watershed and Fisheries Considerations:

Fisheries Concerns ELSMU: Eastern sections of this compartment contain headwater reaches of Barnhardt Creek that serve as tributaries to the Middle Branch Escanaba River. Barnhardt Creek is a designated Type 1 trout stream less than 50-ft wide and have predicted mean July water temperatures that range from 56.5 to 59.4°F (cold streams). 300-ft buffers are recommended for Barnhardt Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100-foot, plus 5 feet per 1% increase in slope, Riparian Management Zone is recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is found within the Michigamme Highlands Management Area, which is on an Outwash Plain in northern Marquette County. The State Forest covers about 3,800 acres and is somewhat scattered parcels. The dominant natural communities are dry northern forest. The major forest cover type is jack pine. This management area provides multiple benefits to the public including forest products, dispersed recreational activities, and habitat for fish and wildlife species. The management priority in this area is to continue to provide these multiple benefits in a sustainable manner while minimizing user conflicts. Wildlife considerations in the Michigamme Highlands Management Area consist of managing jack pine habitat with strategies that more closely mimic natural fire disturbance regimes, to increase early successional jack pine management where appropriate while increasing stand size and striving to accommodate many species associated with xeric forest habitat is desirable. Some of the most significant wildlife management issues in the management area are mast (hard and soft); habitat fragmentation; within stand diversity; mature forest condition; mesic conifer; large open land complexes; and early successional forest. The following have been identified as featured species for the Menominee-Marquette Management Area: Blackburnian Warbler, Black-throated Blue Warbler, Cerulean Warbler, Kirtland's Warbler, Red Crossbill, Black-backed Woodpecker, Spruce Grouse, Ruffed Grouse, Snowshoe Hare, White-tailed Deer, Black Bear.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. The closest known active sand/gravel operation is two miles south. There is some potential for development of sand & gravel within the compartment on the uplands. However, glacial sediments are thin in some areas, with granitic bedrock near the surface. Historic abandoned

iron mines and gold prospects are within a few miles southeast of the compartment, but the compartment is outside the known mineral district, and available geologic and geophysical data does not indicate significant potential for future discoveries beneath the compartment. There is no current mineral leasing activity involving State-owned mineral rights in the vicinity of the compartment.

Vehicle Access:

Vehicle access to certain portions of the compartment can be difficult. Lyme Great Lakes Timber has numerous logging roads that come near this compartment and provide access throughout the year.

Survey Needs:

No survey is required.

Recreational Facilities and Opportunities:

There are no developed recreational facilities within this compartment. Recreational opportunities consist of hunting, fishing, mushroom & berry picking, and hiking.

Fire Protection:

The potential for a large forest fire within this compartment is low given the timber types. Fire suppression tactics would be limited given the terrain.

Additional Compartment Information:

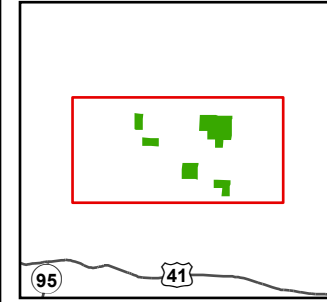
The following reports from the Inventory are attached:

- 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**

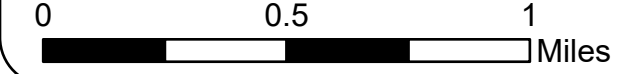
The following information is displayed, where pertinent, on the attached compartment maps:

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

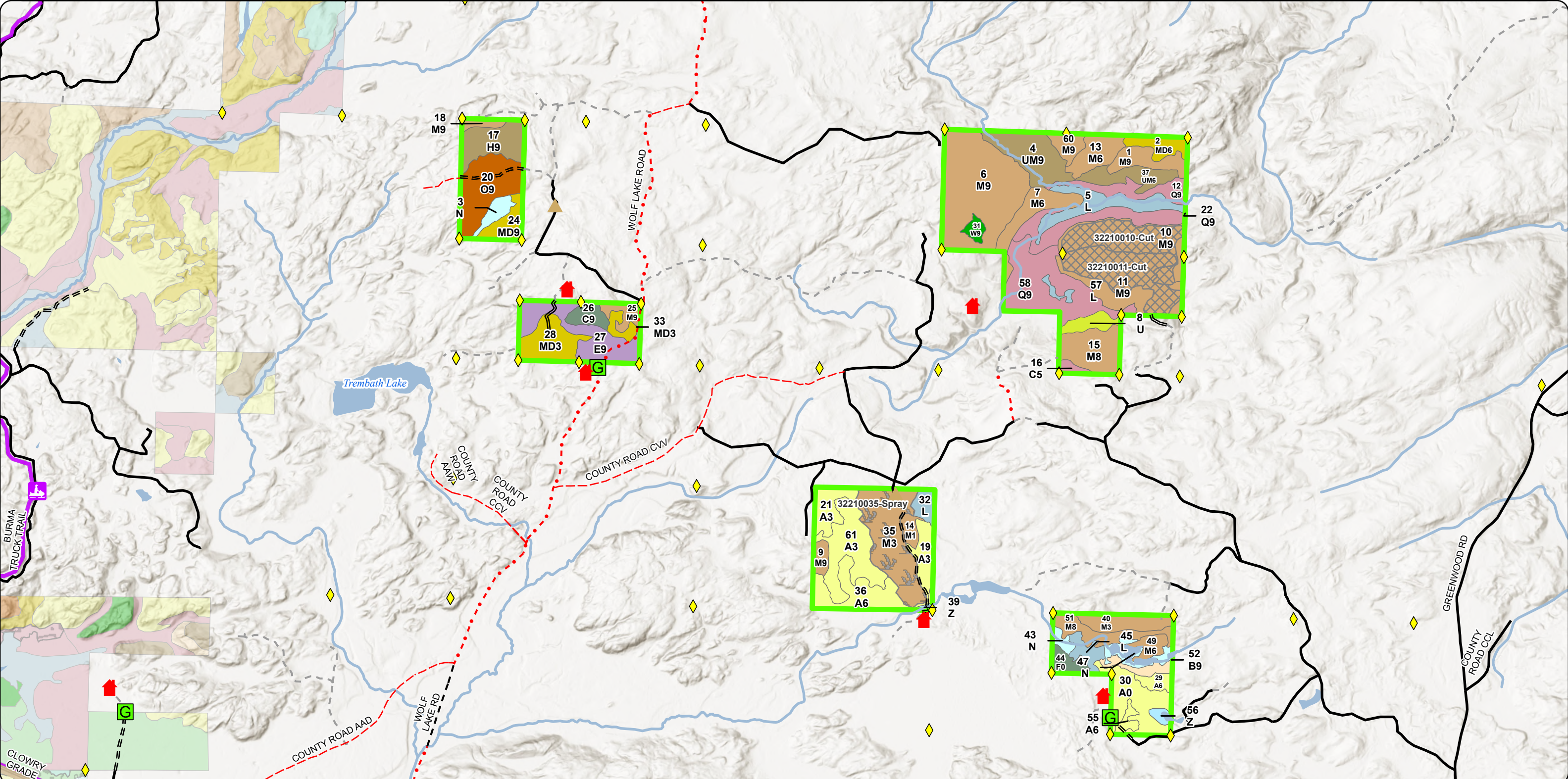
Cover Type & Treatments Map



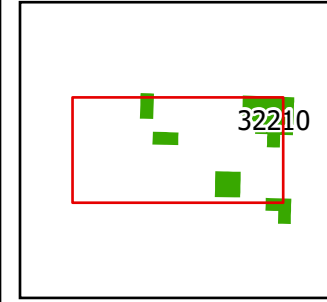
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 T48N R28W Sec 16,18,20,28
 County: Marquette
 Unit: Gwinn
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 YOE: 2027
 Acres: 922 GIS Calculated
 Examiner: Jason Caron
 Date Exported: 11/17/2025
 Map Phase: Post Review



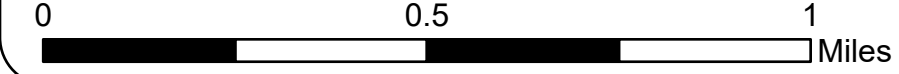
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|-----------------------------|---------------------------------------|------------------------------|---------------------------------|
| Survey Grade Corners | DNR - Forest Access Route | Compartment Boundary | 423 - Other Upland Conifers |
| Berm | Federal / State / County - Paved Road | Selection | 430 - Upland Mixed Forest |
| Gate | Federal / State - Dirt / Gravel Road | Pesticide | 500 - Water |
| Designated ORV Routes | County - Gravel Road | 411 - Northern Hardwood | 611 - Lowland Deciduous Forest |
| Designated Snowmobile | County - Dirt Road (Seasonal) | 412 - Oak Types | 612 - Lowland Coniferous Forest |
| Railtrail | Private - Dirt / Gravel Road | 413 - Aspen | 330 - Low Density Trees |
| DNR - Secondary Forest Road | Electric | 414 - Other Upland Deciduous | 622 - Lowland Shrub |
| | Streams | 419 - Mixed Upland Deciduous | 623 - Emergent Wetland |
| | Lakes and Rivers | 422 - Natural Pines | |



Cover Type & Treatments Map

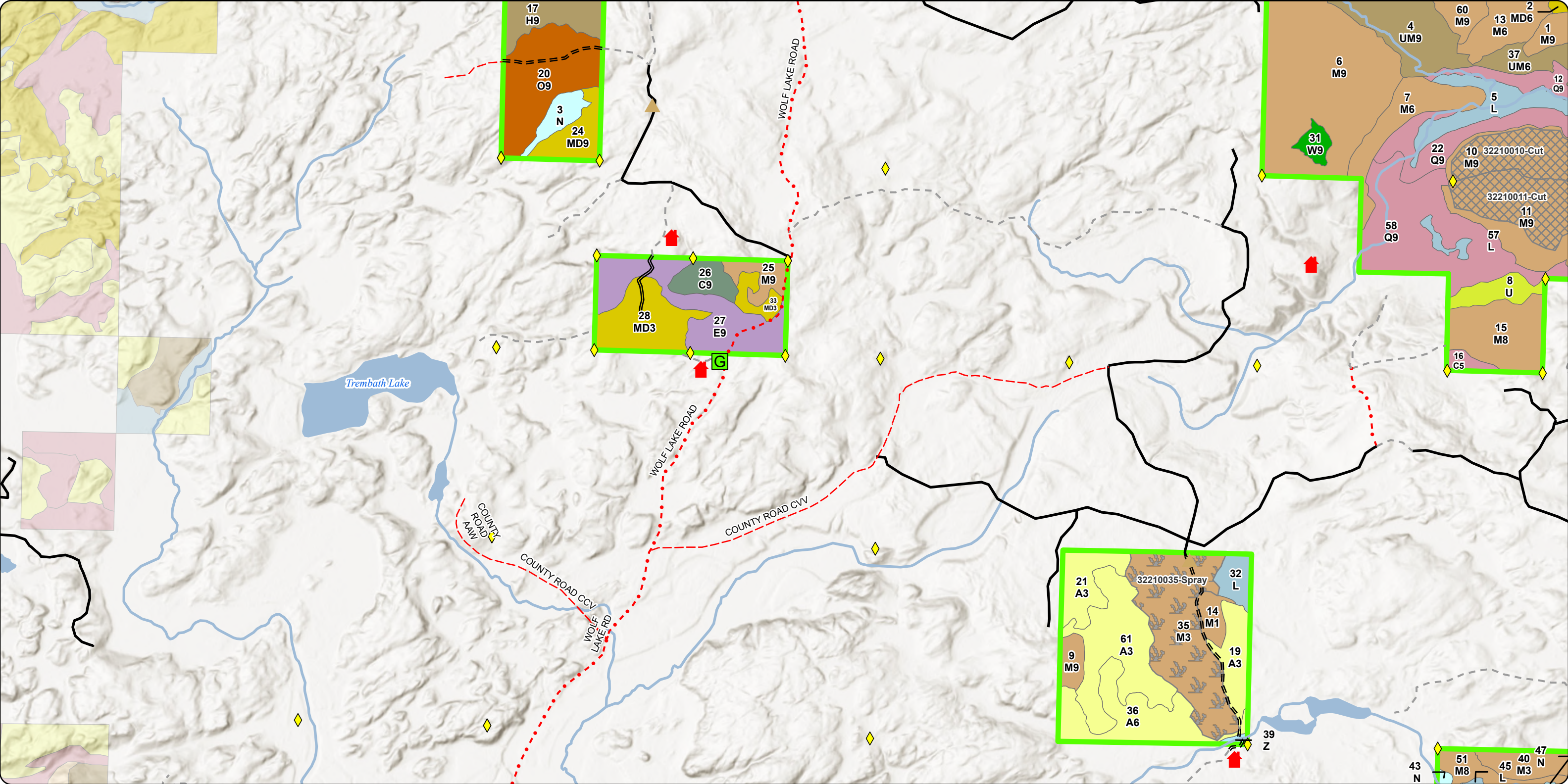


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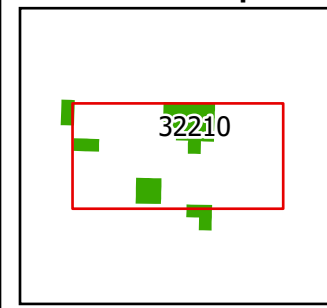


- Survey Grade Corners
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Berm
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Gate
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- DNR - Forest Access Route
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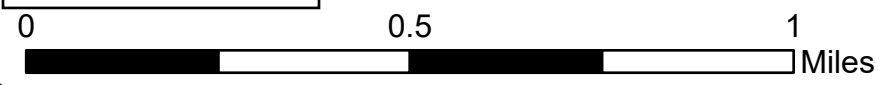
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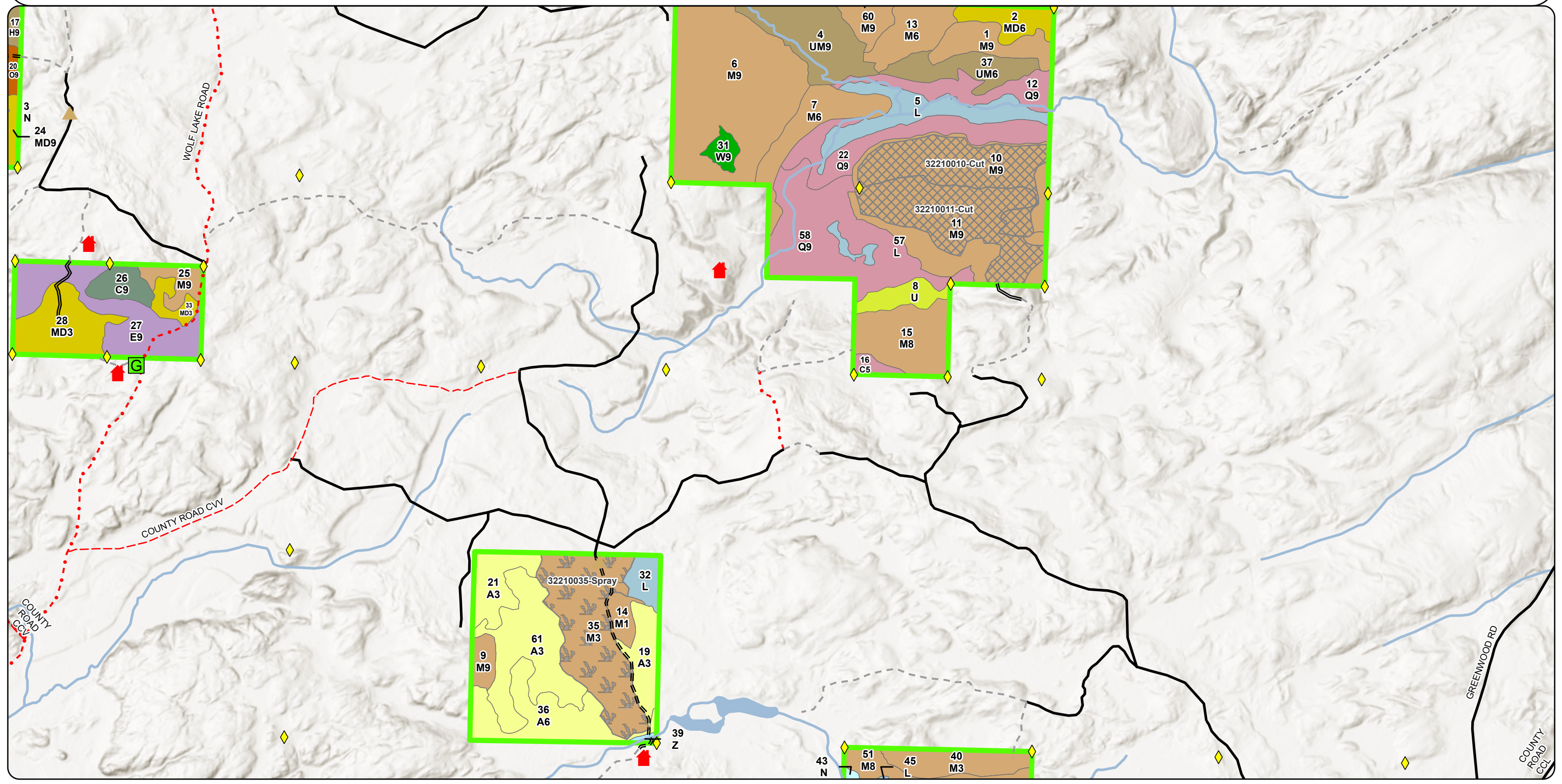
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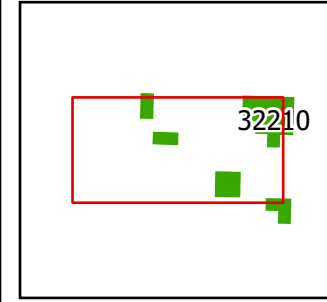
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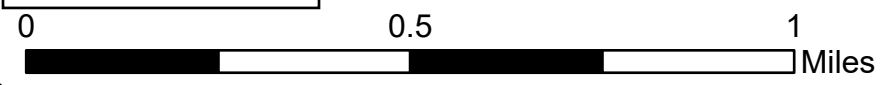
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Stand Boundary Map

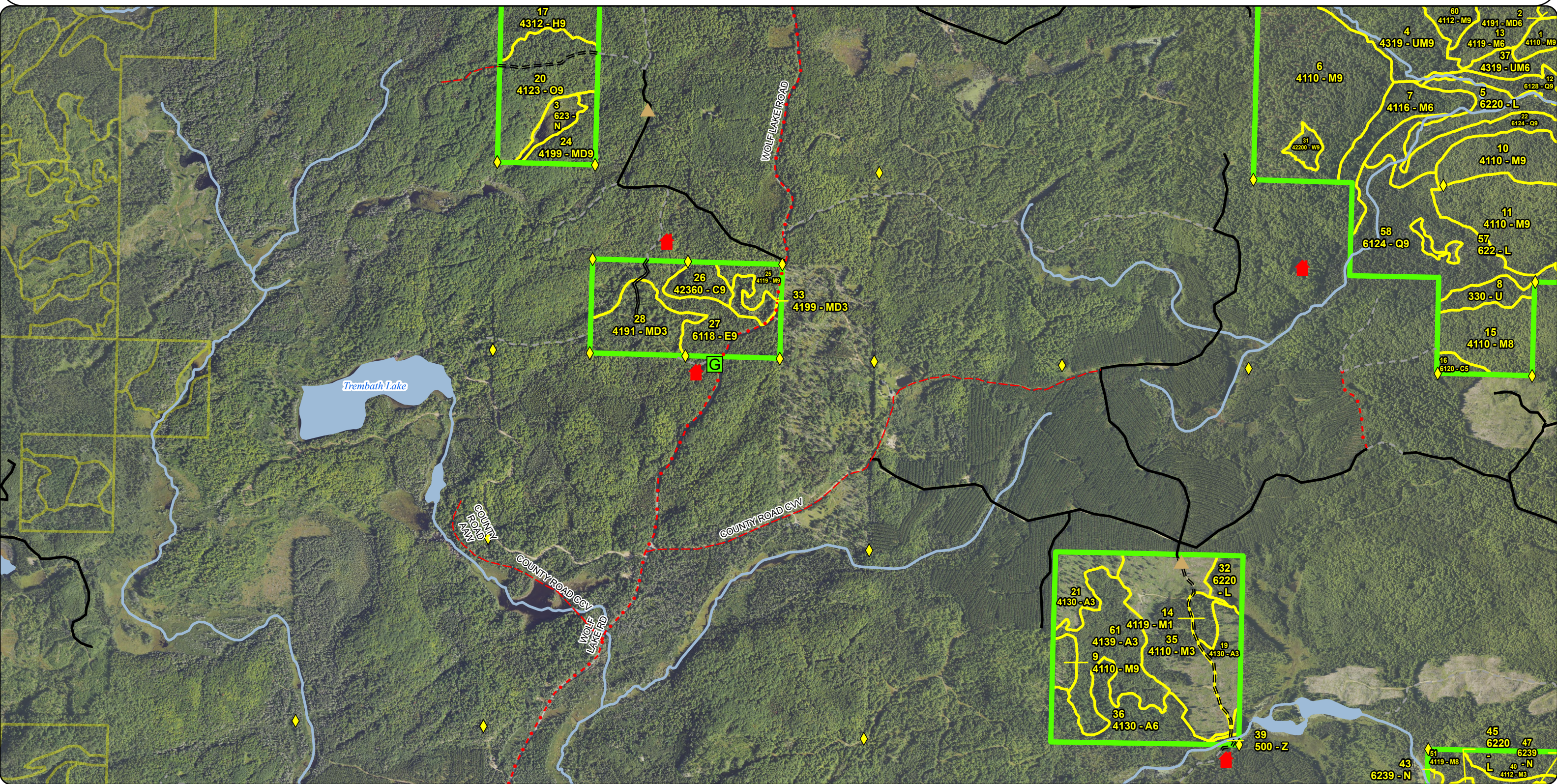


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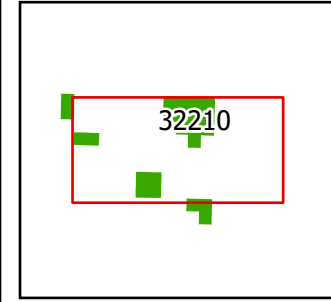


- ◆ Survey Grade Corners
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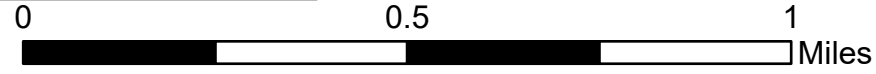
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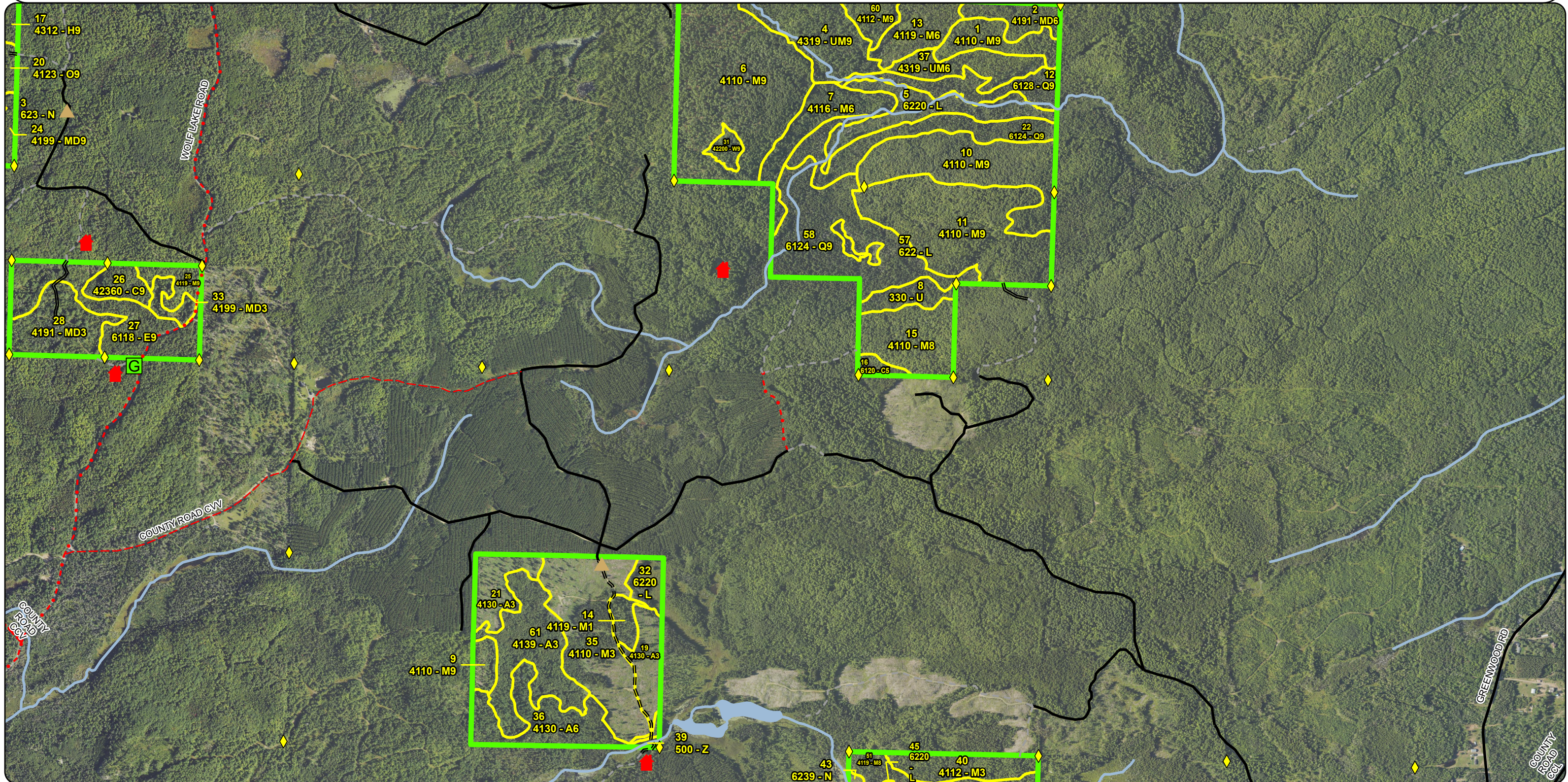


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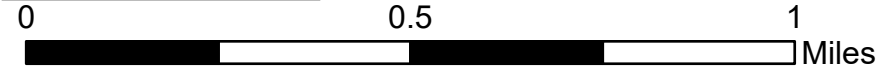
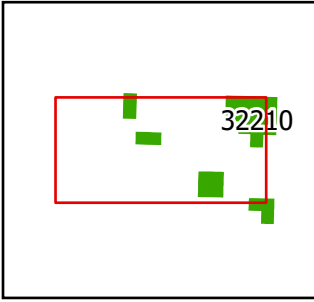
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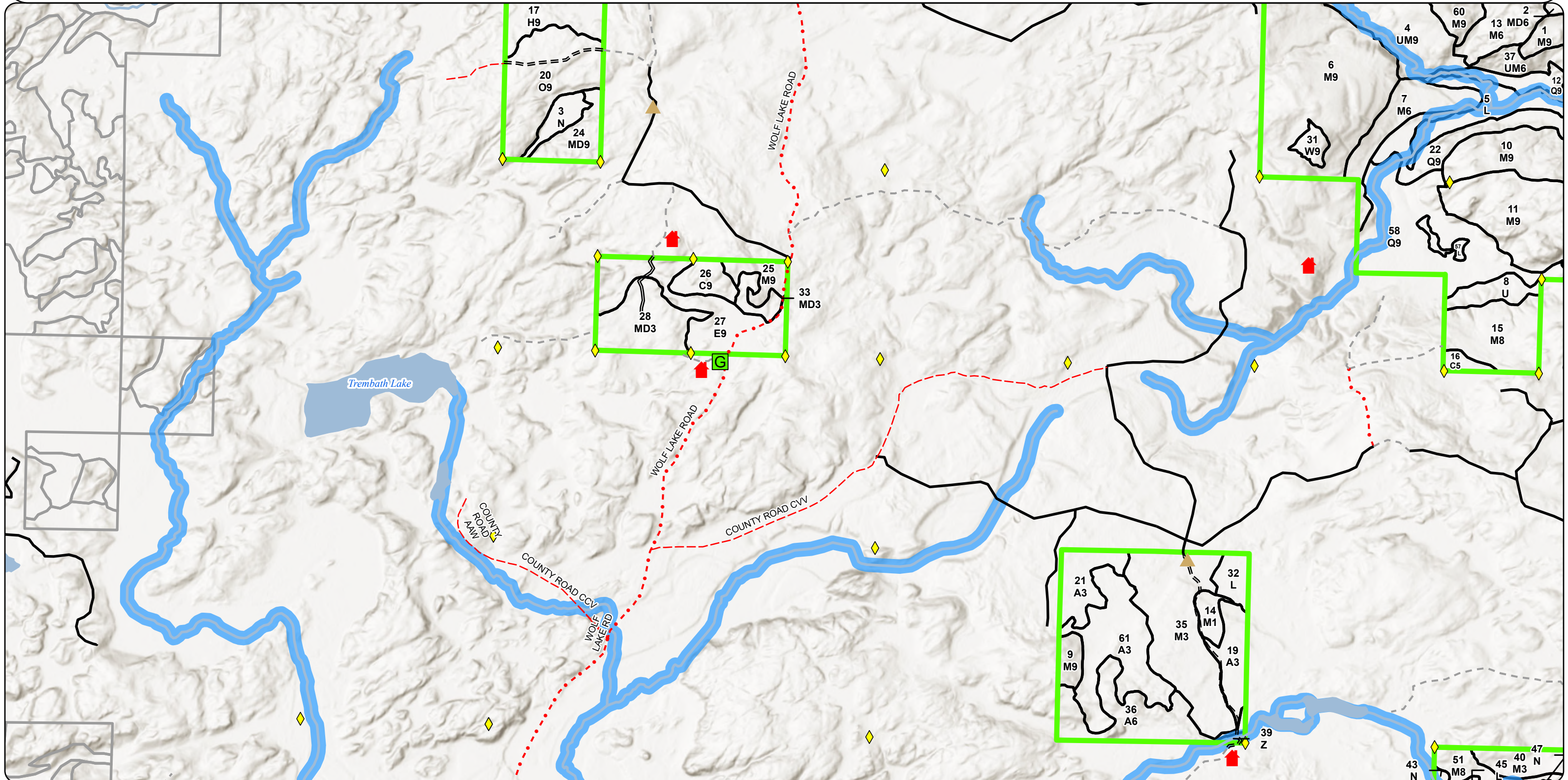


Special Conservation Areas & Site Conditions Map

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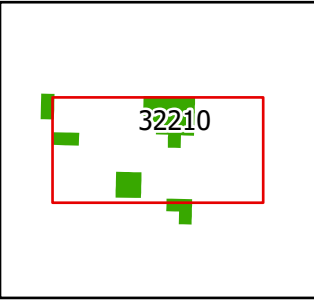
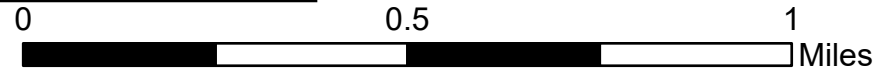


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- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer

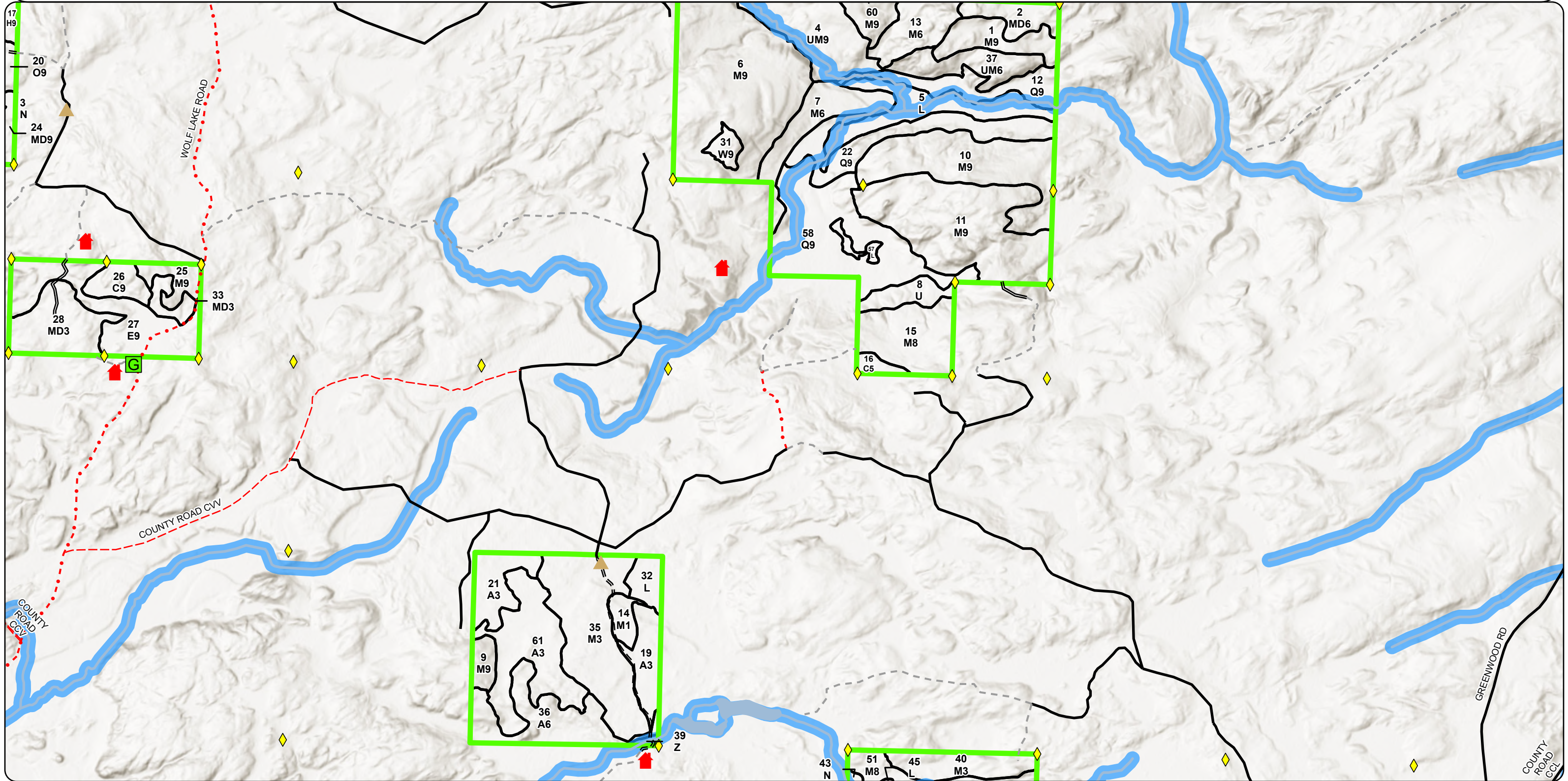


**Special Conservation Areas
& Site Conditions Map**

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- Cold Water Streams
- High Priority Trout Stream Buffer
- Streams



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	30	27	0	37	38	0	0	0	0	0	0	0	0	0	0	0	0	0	131
Cedar	0	0	0	0	0	0	0	0	0	0	3	0	9	0	0	0	0	0	11
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	24
Low-Density Trees	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	54	0	0	44	0	0	0	0	98
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	35
Lowland Shrub	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Marsh	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Mixed Upland Deciduous	0	0	29	0	0	0	0	0	0	0	0	12	0	11	0	0	0	0	51
Northern Hardwood	0	50	5	37	0	7	77	0	0	0	0	64	0	15	8	0	0	129	392
Oak	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	36
Paper Birch	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	7
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	31	0	47
Upland Spruce/Fir	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4
Total	113	77	34	74	38	7	77	0	0	7	57	76	9	86	8	4	55	200	919



Report 2 – Treatment Summary

Gwinn Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 210
Total Compartment Acres: 922

Commercial Harvest - 168
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
Northern Hardwood		0	84	0	0	0	0	0	0	0	84
	Total	0	84	0	0	0	0	0	0	0	84

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		84	0	0	0	0	49	0	0	0	133
Next Step		0	0	99	0	0	148	182	0	0	429
	Total	84	0	99	0	0	198	182	0	0	562



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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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Proposed Treatments:

10	32210010-Cut	37.9	4110 - Sugar Maple Association	9	51	81-110	Harvest	Selection	411 - Northern Hardwood	Current	No
<p><u>Prescription</u> Perform a TSI type thinning to improve stem quality and remove poor quality trees. Reduce basal area to 80 sq. ft. Keep some aspen stems within the stand for diversity. Do not harvest under-represented species such as yellow birch, cedar, hemlock, white p</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> Mixed deciduous and conifer species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Adjacent owner Steve Mettner has agreed to allow access for timber sale prep and timber harvest through his private 40 to the south. Steve</p> <p><u>Comment:</u> can be reached at 906-250-3083</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
11	32210011-Cut	45.7	4110 - Sugar Maple Association	9	100	81-110	Harvest	Selection	4119 - Mixed Northern Hardwoods	Current	No
<p><u>Prescription</u> Perform a selection harvest on stand. Reducing basal area to 50 - 60 sq. ft. In areas with poor quality timber reduce the basal area further to promote regeneration. Do not harvest under-represented tree species such as pine, hemlock, cedar, yellow birch,</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> Mixed deciduous and conifer species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Adjacent owner Steve Mettner has agreed to allow access for timber sale prep and timber harvest through his private 40 to the south. Steve</p> <p><u>Comment:</u> can be reached at 906-250-3083</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
35	32210035-Spray	49.4	4110 - Sugar Maple Association	3	3	Immature	Pesticide	Pesticide	4211 - Planted Red Pine	Planting Record	No
<p><u>Prescription</u> herbicide current competition and plant red pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Unfurrowed; Monitoring, Artificial Regen; Planting, Interplant; Pesticide, Aerial - Release; Pesticide, Aerial - Release;</p> <p><u>Treatments:</u> Pesticide, Drone - Site Prep; Monitoring, Artificial Regen</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></p> <p><u>Proposed Start Date:</u> 10/01/2025</p>											

Total Treatment 133
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jason Caron : Examiner

Compartment: 210
Year of Entry: 2027



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5F	2F	2G	3J
132	132	0	0	Aspen				
12	3	9	0	Cedar	9			
24	24	0	0	Hemlock				
9	9	0	0	Low-Density Trees				
72	0	0	72	Lowland Conifers			20	53
35	35	0	0	Lowland Deciduous				
41	41	0	0	Lowland Shrub				
21	21	0	0	Marsh				
52	41	0	11	Mixed Upland Deciduous		11		
387	353	0	34	Northern Hardwood		34		
36	36	0	0	Oak				
4	0	0	5	Paper Birch				5
47	31	0	16	Upland Mixed Forest		16		
8	8	0	0	Upland Spruce/Fir				
4	4	0	0	Water				
4	4	0	0	White Pine				
888	742	8	138	Total Forested Acres	9	61	20	57
	84%	1%	16%	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	3J: Water quality/BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	36	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Buffer along stream. Wet ground with seeps throughout.							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jason Caron : Examiner

Compartment: 210
Year of Entry: 2027



8	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	17	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Buffer along stream. Terrain is very steep.							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2F: Too steep	59	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: Rugged terrain precludes harvest.							
17	Available	5F: Evaluated for Forest Health Considerations	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is only 8 acres, of which about 1/2 is operable. Stand is also heavy to cedar.							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Excluded this area from the adjacent timber sale due to very wet ground conditions.							
19	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
1	4110 - Sugar Maple Association	Sawtimber Well	14.8	120	111-140	N/A	Stand of over mature sugar maple with yellow birch scattered throughout. Numerous areas within the stand would be inoperable due to rock cliffs and drainages.																																																									
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2	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	11.1	120	81-110	N/A	Stand of both deciduous and conifer growing on very rugged and rocky ground. Balsam understory is very thick in areas. Paper birch is falling apart and red maple shows signs of top dieback. Most of the stand is inoperable due to rugged terrain.																																																									
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3	623 - Emergent Wetland	None	6.7			No	Stand consists of a small beaver pond and emergent wetland.																																																									
4	4319 - Mixed Upland Forest	Sawtimber Well	30.6	160	81-110	N/A	Scattered super canopy white pine exists with red maple growing within the canopy gaps. Stand is in poor condition as the fir and spruce have died and fallen over. The remaining maple is poor quality due to the soil conditions. Portions of the stand are growing on a south facing slope. Some white pine are very large diameter																																																									
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5	6220 - Alder/Willow	None	23.6			No	Stream corridor. Tag alder throughout.																																																									
6	4110 - Sugar Maple Association	Sawtimber Well	85.4	140	81-110	N/A	OI notes from previous Inventory (Heikkila): Stand was comm. cut during 1996 - 1997 by Superior Mich. Hardwoods, Inc. from Niagara, Wis. (c/o Shawn Staples), "Barnhardt Creek Sale" permit #3-92. Also a small timber bridge was built by the contractor within the sale to cross a small creek. It was left in place. Note - this was the second cut made since the State has owned this. Some winters, the snow depth was too great to operate here. 2025 Inventory Notes: Stand was shelterwood harvested in the summer of 2022. Stand is doing very well post-harvest. Sugar maple dominates the understory, everything from saplings under 5' in height to large saplings 10-20' in height. Some cherry regeneration exists along with some white pine saplings here and there.																																																									
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7	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	20.7	29	Immature	N/A	Stand was cut in '96-'97 under permit # 3-92. Stand has grown into the pole size class. Sugar maple looks healthy. The aspen regeneration is poorer quality. Large white pine scattered throughout the stand. Inventory notes from 20 years ago mention severe moose browse. No moose activity when doing the inventory.																																																												
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8	330 - Low-Density Trees	None	8.6			No	Stand was harvested (clearcut) in 2023. Roughly a dozen large (26"+ dbh) white pine exist within the stand. Some red maple stump sprouts and black cherry stems are starting to fill in. Stand will fill in as it ages.																																																												
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9	4110 - Sugar Maple Association	Sawtimber Well	5.5	120	51-80	N/A	Stand was shelterwood harvested in 2022. TS# 107-17. Stand contains good log sized sugar maple and a few scattered red oak. Regeneration is starting to grow within the understory.																																																												
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10	4110 - Sugar Maple Association	Sawtimber Well	45.1	51	81-110	N/A	OI notes say this stand was cut hard probably back in the 60's. When looking at the stand I would agree. Stand has pockets of log trees and pockets of 8-10" poles. Stand is on a steep slope. I took an age on an aspen to get an idea of the age of the younger timber. I estimate the majority of the sugar maple to be of this age as well, 51 years. Numerous seeps and drainages within the stand. Old skid trails within the stand.																																																												
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11	4110 - Sugar Maple Association	Sawtimber Well	63.9	100	81-110	N/A	Stand was harvested in 2012:: TS# 305-08-01. Overall the stand has an average basal area of around 80-90 sq. ft. Some areas higher, some lower. Hold the stand for another 10 years and then combine stand 10 for a harvest.																																																												
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12	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	16.7	120	Unspecified	N/A	Creek bottom and floodplains of the Barnhardt Creek. Stand contains rocky areas and numerous seeps and drainages. Steep hillside along the North edge of this stand that slopes down to the wetland edge. White spruce is in poorer condition due to budworm. Black spruce is in good condition.																																																												
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13	4119 - Mixed Northern Hardwoods	Poletimber Well	16.3	50	1-50	N/A	Stand is growing on rock. Timber is poor quality due to shallow soils. Most of the fir and white spruce have fallen over. Sugar maple and red maple are poor quality due to shallow soil. Scattered white pine exists throughout the stand.																																																												
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14	4119 - Mixed Northern Hardwoods	Sapling Poor	5.3	14	Immature	N/A	A seed tree harvest, stand was cut in 2011 TS#104-07-01. Stand has fully regenerated back to a mix of aspen, cherry, and fir. Good diversity for wildlife.																																																												
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15	4110 - Sugar Maple Association	Sawtimber Medium	26.3	120	111-140	N/A	Stand was shelterwood harvested in 2024. TS# 107-17. Stand is in good condition with a decent stocking of sugar maple saplings within the understory. Stand will fill in nicely with regeneration given the low browse pressure in this area. Red maple stump sprouts are getting browsed currently. Cherry may fill in within the gaps depending on the amount of seed that exists within the soil.																																																												
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16	6120 - Lowland Cedar	Poletimber Medium	3.3	91	81-110	N/A	Stand had a foot of water in it during my inventory in May 2025. Black ash is near dead with green epicormic branches but dead tops. Far west side of stand contains more red maple with slightly higher ground.																																																												
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17	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	23.7	220	111-140	N/A	A unique stand of hemlock mixed with red maple, yellow birch, paper birch, and a few scattered cedar. Stand is growing on rolling terrain, some high and some low. Hemlock and fir dominate the understory. I can see some old logging stumps within the stand from historic logging. The harvesting likely occurred 60+ years ago. The southern edge of the stand was thinned in 2011. The red maple was removed during this harvest. As a result, the hemlock regeneration within the gaps is impressive and doing well.																																																												
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20	4123 - Red Oak	Sawtimber Well	36.4	100	81-110	N/A	Selectively cut in 2011. TS #103-07-01. Stand consists of decent quality oak but poorer quality maple. Very little if any oak was cut which makes the basal area high in some areas. Stand has rocky hills throughout with a swale/drainage that runs NE/SW.																																																																	
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22	6124 - Lowland Spruce-Fir	Sawtimber Well	27.4	120	Unspecified	N/A	Narrow stand at the base of a hardwood to the South and Wetland edge to the North and West. Stand contains a mix of conifer and deciduous. Ground appears wet with seeps throughout. Cedar, yellow birch and spruce are old and in poor condition. The understory consists of both conifer and deciduous of various ages.																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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24	4199 - Other Mixed Upland Deciduous	Sawtimber Well	12.0	100	81-110	N/A	Stand consists of a mix of red oak, red maple, and poorer quality paper birch. Mature fir has died as a result of the budworm outbreak. Ground is rocky and soil is shallow. A carpet of red oak seedlings exists on the forest floor due to the heavy acorn crops from the last few years. A lot of coarse woody debris exists within the stand due to the dead fir falling over within the stand. Northernmost portion of stand contains a mix of sugar maple & yellow birch.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		2	XLog	18		Red Oak		High	< 5 feet	< 5 feet
Red Maple		27	Pole	8		Balsam Fir		Medium	Variable	Variable
Yellow Birch		2	XLog/Log	18						
Red Oak		40	Log	14	100					
Paper Birch		27	Log	12						
Northern White Cedar		2	Log	14						

25	4119 - Mixed Northern Hardwoods	Sawtimber Well	7.7	114	81-110	N/A	Stand was selectively cut in 2011. TS#104-07-01. Maple is poorer quality. I noticed some top dieback of the maple along the Wolf Lake Road within this stand. The red oak is nice quality and large in diameter. Some areas were marked light while other areas were marked heavier. A low area within the stand exists in about the center of stand. This area was red lined out and not cut during the harvest. Paper birch is in decline due to age. Overall, basal area is low throughout the stand. Regeneration is good within the understory.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		45	Log/Pole	12	114	Balsam Fir		Medium	Variable	Variable
Red Maple		30	Log/Pole	10		Ironwood		Medium	Variable	Variable
Yellow Birch		5	Log/Pole	10		Red Oak		Low	5 - 10 feet	5 - 10 feet
Red Oak		15	XLog/Log	20		Red Maple		Medium	Variable	Variable
Paper Birch		5	Log	12		Bigtooth Aspen		Low	Variable	Variable
						Hazelnut (Spp.)		Low	5 - 10 feet	5 - 10 feet

26	42360 - Upland Cedar	Sawtimber Well	8.5	118	81-110	N/A	Stand of upland cedar that is growing on rock. Fir has died due to the budworm outbreak. Some large white pine exists on the far west edge of stand. Stand slopes down to the south and west.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		20	Pole	9		Balsam Fir		Low	Variable	Variable
Yellow Birch		2	Log/Pole	15						
Paper Birch		10	Log/Pole	10						
Northern White Cedar		66	Log/Pole	15	118					
White Pine		2	XLog/Log	22						

27	6118 - Lowland Deciduous with Cedar	Sawtimber Well	35.4	118	111-140	N/A	Lowland stand with a mix of deciduous and conifer. Soil is very wet with a heavy organic component of black muck. Mature ash, fir, and spruce have fallen out of the stand due to EAB and spruce budworm. A fir understory still exists. Stand varies in age from old pockets of mature cedar to younger trees consisting of red maple and yellow birch. Old OI notes state: "area didn't sell in 1976. Parks cut some cedar in the winter of 1977".			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		33	Log/Pole	10		Black Ash		Low	Variable	Variable
Yellow Birch		33	Log/Pole	10	118	Balsam Fir		Medium	Variable	Variable
Paper Birch		2	Pole/Sapling	5		White Spruce		Low	Variable	Variable
Northern White Cedar		32	Log/Pole	12	118	Northern White Cedar		Low	< 5 feet	< 5 feet
						Yellow Birch		Low	Variable	Variable
						Red Maple		Low	Variable	Variable
						Tag Alder		Low	5 - 10 feet	5 - 10 feet



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28	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	23.3	14	Immature	N/A	Stand was harvested in 2011: TS#104-07-01. Stand has regenerated back very well to a mix of deciduous and conifer. Scattered x-log size oak remain in the stand. Stand is very diverse and healthy.																																																				
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29	4130 - Aspen	Poletimber Well	5.6	38	1-50	N/A	Stand of healthy aspen. A dense subcanopy of sugar maple exists within the understory. North edge of stand contains a few large diameter sugar maple. Allow stand to grow 10 more years and prescribe in the next YOЕ.																																																				
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30	4130 - Aspen	Unspecified	30.0	1	1-50		Stand was clearcut in 2024. TS# 32-107-17. Scattered pole sized oak was left throughout the stand. Aspen is starting to sprout. Stand will become a fully stocked A3 stand as it ages.																																																				
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31	42200 - Natural White Pine	Sawtimber Well	4.2	140	111-140	N/A	Small stand of log sized white pine. Stand appeared to be rocky but was hard to tell due to snow depth. White pine is good quality.																																																				
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32	6220 - Alder/Willow	None	7.0			No	Tag alder and willow.																																																				
33	4199 - Other Mixed Upland Deciduous	Sapling Well	5.2	14	Immature	N/A	Stand harvested in 2011. TS#104-07-01. Stand consists of a mix of deciduous species. Some areas contain a nice mix of white birch regeneration. Old rock piles and apple trees exist within the stand. Likely an old farm field from years ago.																																																				
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35	4110 - Sugar Maple Association	Sapling Well	49.5	3	Immature	N/A	Stand was harvested in 2023. TS# 32-107-17. Regeneration is poor given a large majority of the previous stand consisted of spruce and fir. Cherry exists throughout the stand. A few scattered mature red pine and white pine exist throughout the stand.																																																				
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36	4130 - Aspen	Poletimber Well	28.2	38		N/A	Stand was harvested in 1987 - 1989. TS# 13-87. OI notes state that oak and cherry were left within the cut. Stand consists of healthy aspen. A dense subcanopy of sugar maple exists within the understory. The northern edge of the stand contains a few larger diameter sugar maple. Fir is in poor condition due to age and budworm damage. Consider harvesting this stand in the next YOE.																																																					
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37	4319 - Mixed Upland Forest	Poletimber Well	16.2	120	81-110	N/A	Stand of mixed deciduous and conifer on a steep slope towards the Barnhardt Creek. Paper birch is in decline with numerous dead tops throughout the stand.																																																					
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39	500 - Water	None	1.0			No	Small beaver pond.																																																					
40	4112 - Maple, Beech, Cherry Association	Sapling Well	16.1	25	Immature	N/A	OI Comments- Seed tree cut in 1999, TS#13-97-01. Stand has fully regenerated back to red maple with some fir and oak mixed in as well. Fir is in poor condition due to budworm.																																																					
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43	6239 - Mixed Emergent Wetland	None	3.7			No	Beaver pond.																																																					
44	42330 - Upland Fir	Unspecified	7.8	0	Immature		Stand was part of the Pelto's Farm SBW sale but was never cut. Balsam has since died and fallen over. A few remnant pole sized red maple and black cherry exist within the stand. Stand will eventually seed back into a mix of coniferous and deciduous species.																																																					
45	6220 - Alder/Willow	None	8.2			No	Mostly tag alder with scattered trees throughout.																																																					
47	6239 - Mixed Emergent Wetland	None	10.9			No	A series of beaver ponds and associated marshes.																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
49	4112 - Maple, Beech, Cherry Association	Poletimber Well	7.4	40	51-80	N/A	Stand consists of red maple mixed with a few paper birch. Mature fir has died as a result of budworm. The red maple within the stand is of various ages and diameters.																																												
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51	4119 - Mixed Northern Hardwoods	Sawtimber Medium	15.7	50	51-80	N/A	Portions of the stand are very rugged and rocky. Mature balsam fir has died due to budworm. Paper birch is in decline due to age and poor soil conditions. Stand acts as a buffer to adjacent beaver flooding. Mature timber is patchy depending on where you are within the stand.																																												
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52	4140 - Other Upland Deciduous	Sawtimber Well	6.9	88	141-170	N/A	Stand was left as a buffer along the stream. Paper birch is old and falling apart. Balsam fir, red maple and white spruce will eventually take over the stand as the paper birch continues to decline. Most of the paper birch contain dead tops. I was able to core a white spruce @ 102 years of age.																																												
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55	4130 - Aspen	Poletimber Well	4.4	36	51-80	N/A	Cut between '87-'89 under permit #13-87. Red oak and cherry were left within the cut. Stand of poorer quality aspen due to the poor soils. Stand has a mix of species within the understory. Allow adjacent stand to green up and consider prescribing it in the next YOE.																																												
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56	500 - Water	None	3.0			No	Small pond which was buffered during recent timber sale. Moose activity exists within the pond.																																												
57	622 - Lowland Shrub	None	2.6			No	Flooded (dead) timber due to beaver activity.																																												
58	6124 - Lowland Spruce-Fir	Sawtimber Well	54.4	96	Unspecified	N/A	Lowland stand of mixed conifer. Pockets of mature tamarack, black spruce and cedar. Stream flows through the NW corner of the stand. Some young pockets of balsam mixed with cedar regeneration. Very large tamarack within the stand. Stand is very wet. Do not manage.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
60	4112 - Maple, Beech, Cherry Association	Sawtimber Well	8.3	130	111-140	N/A	Stand of northern hardwood. A nice group of large red oak exists within the northwest corner of the stand. Remainder of the stand is dominated by sugar maple with some red maple scattered within it. Hardwood quality is low with mostly pulpwood. Log quality is low. Some red oak regeneration exists near mature red oak stems. A couple of white pine and spruce scattered along the edge of the stand. A ravine exists in the center of the stand which is most likely wet in the spring and fall.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		53	Log	14	130	Red Oak		
Red Maple		40	Log	14		Sugar Maple		
Yellow Birch		2	Log	12		Balsam Fir		
Red Oak		5	XLog/Log	18				
						Density	Avg. Height	Size
						Low	< 5 feet	< 5 feet
						Low	< 5 feet	< 5 feet
						Medium	>20 feet	>20 feet
61	4139 - Aspen, Mixed Deciduous	Sapling Well	36.5	26	Immature	N/A	Stand was clearcut with reserves in 1999: TS#13-97-01. Stand contains a healthy stocking of aspen. Fir and white spruce have died out due to budworm.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		35	Pole/Sapling	5		Balsam Fir		
Paper Birch		5	Sapling	2		Sugar Maple		
Quaking Aspen		55	Sapling	4	26	Paper Birch		
White Pine		5	XLog/Log	20		Quaking Aspen		
						Density	Avg. Height	Size
						Medium	Variable	Variable
						High	Variable	Variable
						Low	Variable	Variable
						Medium	Variable	Variable



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32210

Entry Year: 2027

Acreage: 922

County: Marquette

Management Area: Michigamme Highlands

Stand Examiner: Jason Caron

Legal Description:

T48N-R28W, Sections 16,18,20,28

Identified Planning Goals:

Promote sugar maple regeneration within the hardwood cover types via shelterwood and single tree selection management. Clearcut areas of fir, spruce and aspen types to promote regeneration of these species.

Soil and topography:

Glacial drainage ways and moraines form topography that is nearly level to hilly with rock outcroppings. Soils are generally well drained sandy loams to loams.

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

This compartment is predominately surrounded by larger corporate and non-industrial private ownerships. Land use is primarily for timber harvesting and recreation such as hunting, fishing, mushroom & berry picking, and hiking.

Unique Natural Features:

The area contains numerous rock outcrops and steep ridges. The Barnhardt & Brown creek flow easterly through this compartment.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Refer to the Watershed and Fisheries Considerations writeup below.

Watershed and Fisheries Considerations:

Fisheries Concerns ELSMU: Eastern sections of this compartment contain headwater reaches of Barnhardt Creek that serve as tributaries to the Middle Branch Escanaba River. Barnhardt Creek is a designated Type 1 trout stream less than 50-ft wide and have predicted mean July water temperatures that range from 56.5 to 59.4°F (cold streams). 300-ft buffers are recommended for Barnhardt Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100-foot, plus 5 feet per 1% increase in slope, Riparian Management Zone is recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is found within the Michigamme Highlands Management Area, which is on an Outwash Plain in northern Marquette County. The State Forest covers about 3,800 acres and is somewhat scattered parcels. The dominant natural communities are dry northern forest. The major forest cover type is jack pine. This management area provides multiple benefits to the public including forest products, dispersed recreational activities, and habitat for fish and wildlife species. The management priority in this area is to continue to provide these multiple benefits in a sustainable manner while minimizing user conflicts. Wildlife considerations in the Michigamme Highlands Management Area consist of managing jack pine habitat with strategies that more closely mimic natural fire disturbance regimes, to increase early successional jack pine management where appropriate while increasing stand size and striving to accommodate many species associated with xeric forest habitat is desirable. Some of the most significant wildlife management issues in the management area are mast (hard and soft); habitat fragmentation; within stand diversity; mature forest condition; mesic conifer; large open land complexes; and early successional forest. The following have been identified as featured species for the Menominee-Marquette Management Area: Blackburnian Warbler, Black-throated Blue Warbler, Cerulean Warbler, Kirtland's Warbler, Red Crossbill, Black-backed Woodpecker, Spruce Grouse, Ruffed Grouse, Snowshoe Hare, White-tailed Deer, Black Bear.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. The closest known active sand/gravel operation is two miles south. There is some potential for development of sand & gravel within the

compartment on the uplands. However, glacial sediments are thin in some areas, with granitic bedrock near the surface. Historic abandoned iron mines and gold prospects are within a few miles southeast of the compartment, but the compartment is outside the known mineral district, and available geologic and geophysical data does not indicate significant potential for future discoveries beneath the compartment. There is no current mineral leasing activity involving State-owned mineral rights in the vicinity of the compartment.

Vehicle Access:

Vehicle access to certain portions of the compartment can be difficult. Lyme Great Lakes Timber has numerous logging roads that come near this compartment and provide access throughout the year.

Survey Needs:

No survey is required.

Recreational Facilities and Opportunities:

There are no developed recreational facilities within this compartment. Recreational opportunities consist of hunting, fishing, mushroom & berry picking, and hiking.

Fire Protection:

The potential for a large forest fire within this compartment is low given the timber types. Fire suppression tactics would be limited given the terrain.

Additional Compartment Information:

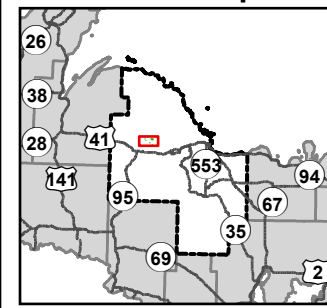
The following reports from the Inventory are attached:

- 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**

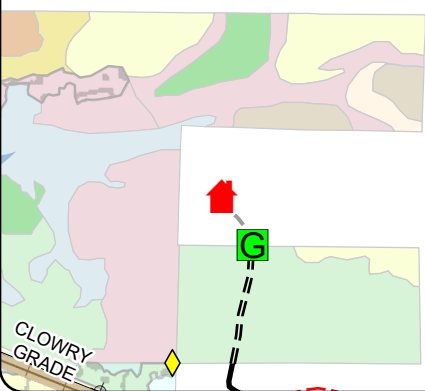
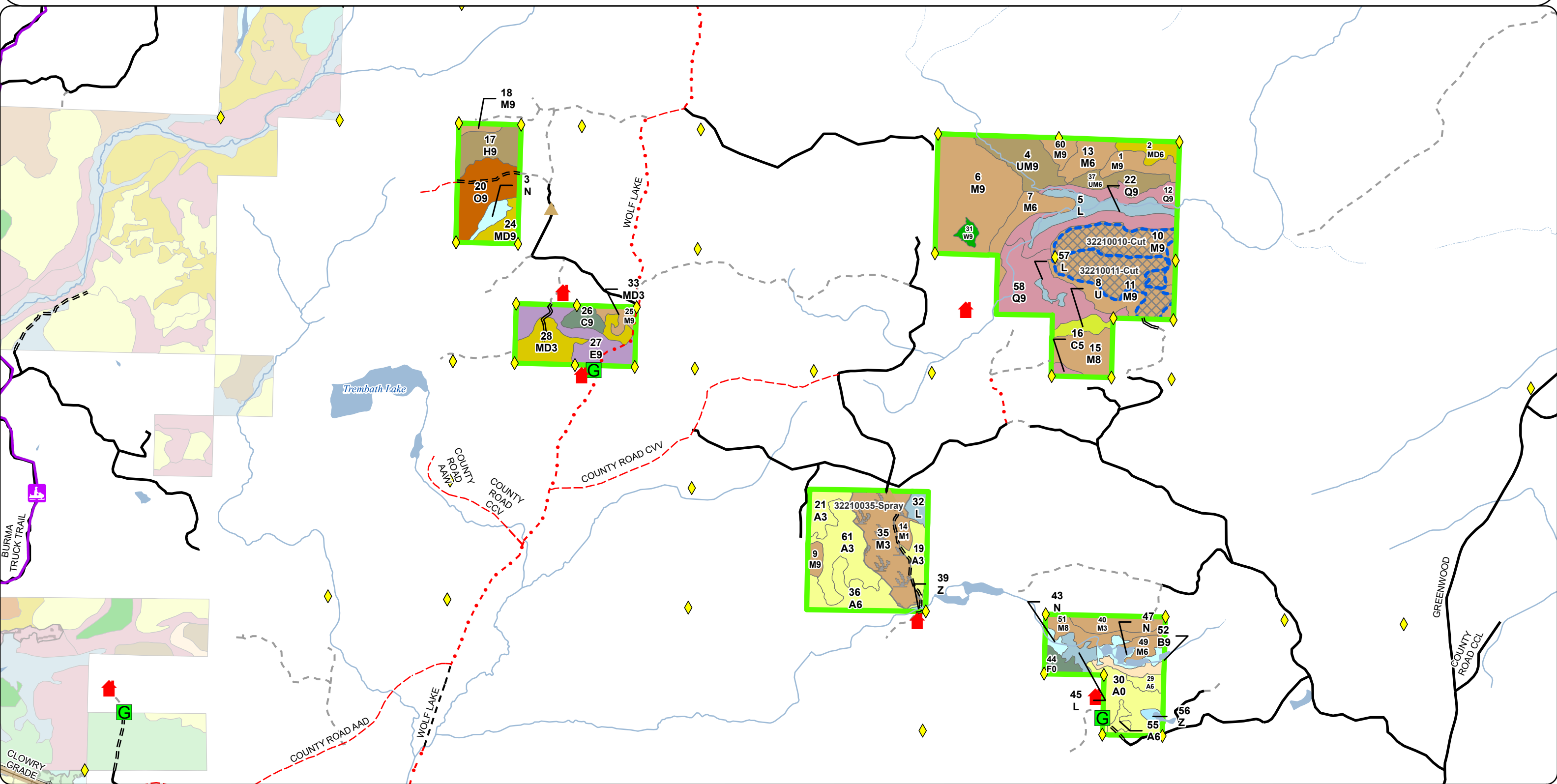
Cover Type & Treatments Map



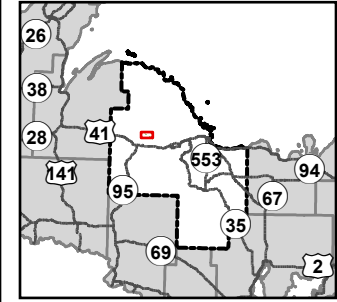
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 T48N R28W Sec 16,18,20,28
 County: Marquette
 Unit: Gwinn
 Mgmt. Area: Michigamme Highlands
 YOE: 2027
 Acres: 922 GIS Calculated
 Examiner: Jason Caron
 Date Exported: 08/19/2025
 Map Phase: Web Post

- Survey Grade Corners
- Cabin
- Berms
- Gate
- Designated ORV Routes
- Designated Snowmobile Trails
- RailTrail
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Powerline
- Lakes and Rivers
- Counties
- Compartment Boundary
- Selection
- Pesticide
- Treatments with Site Conditions

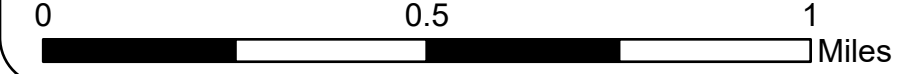
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 500 - Water
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



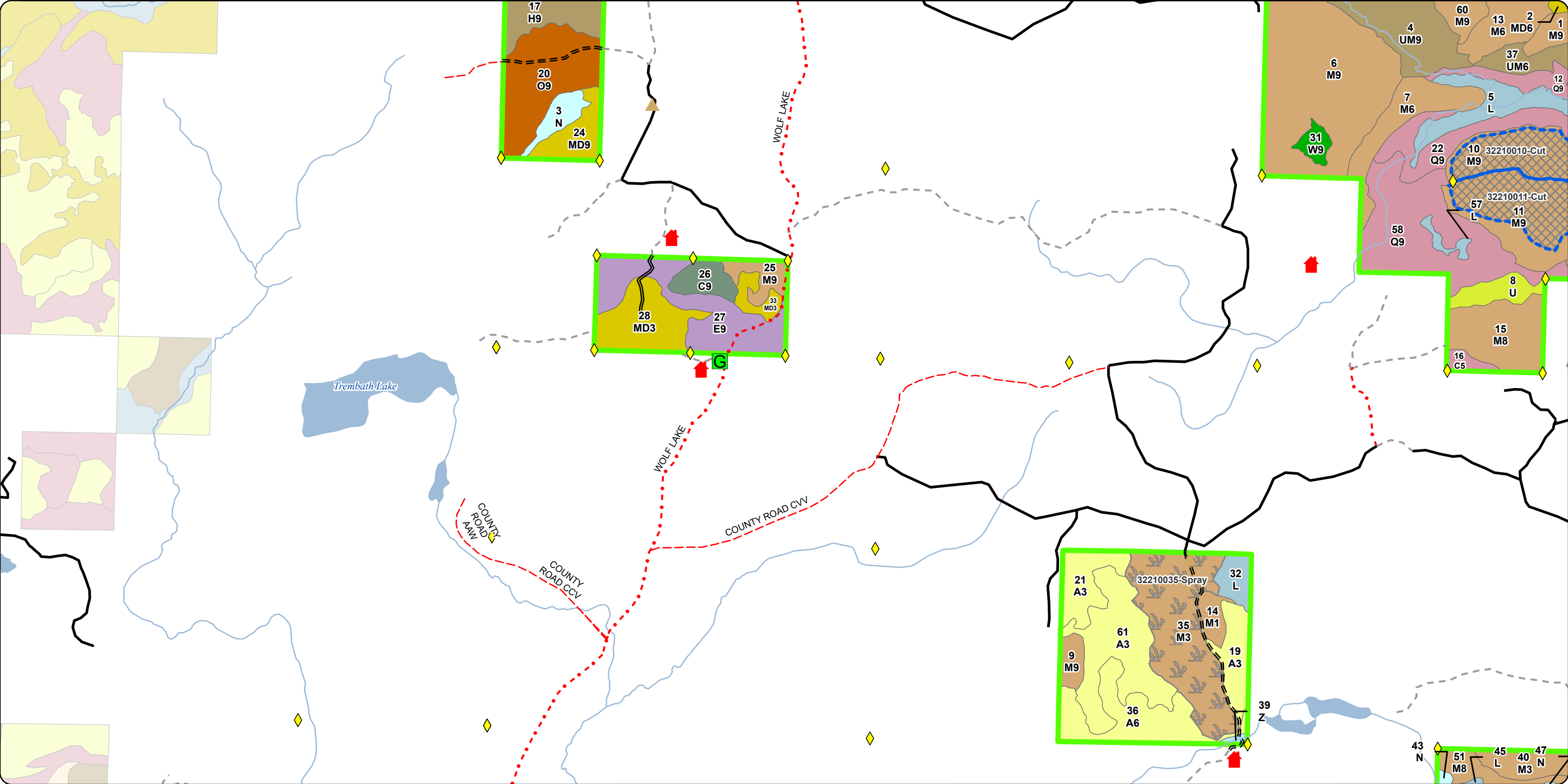
Cover Type & Treatments Map



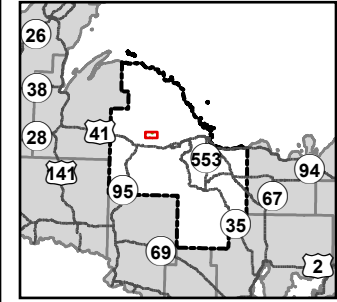
Compartment: 32210
 T48N R28W Sec 16,18,20,28
 County: Marquette
 Unit: Gwinn
 Mgmt. Area: Michigamme Highlands
 YOE: 2027
 Acres: 922 GIS Calculated
 Examiner: Jason Caron
 Date Exported: 08/19/2025
 Map Phase: Web Post



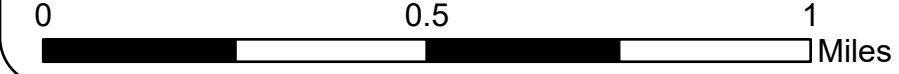
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- Counties
- Compartment Boundary
- Selection
- Pesticide
- Treatments with Site Conditions
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- 412 - Oak Types
- 413 - Aspen
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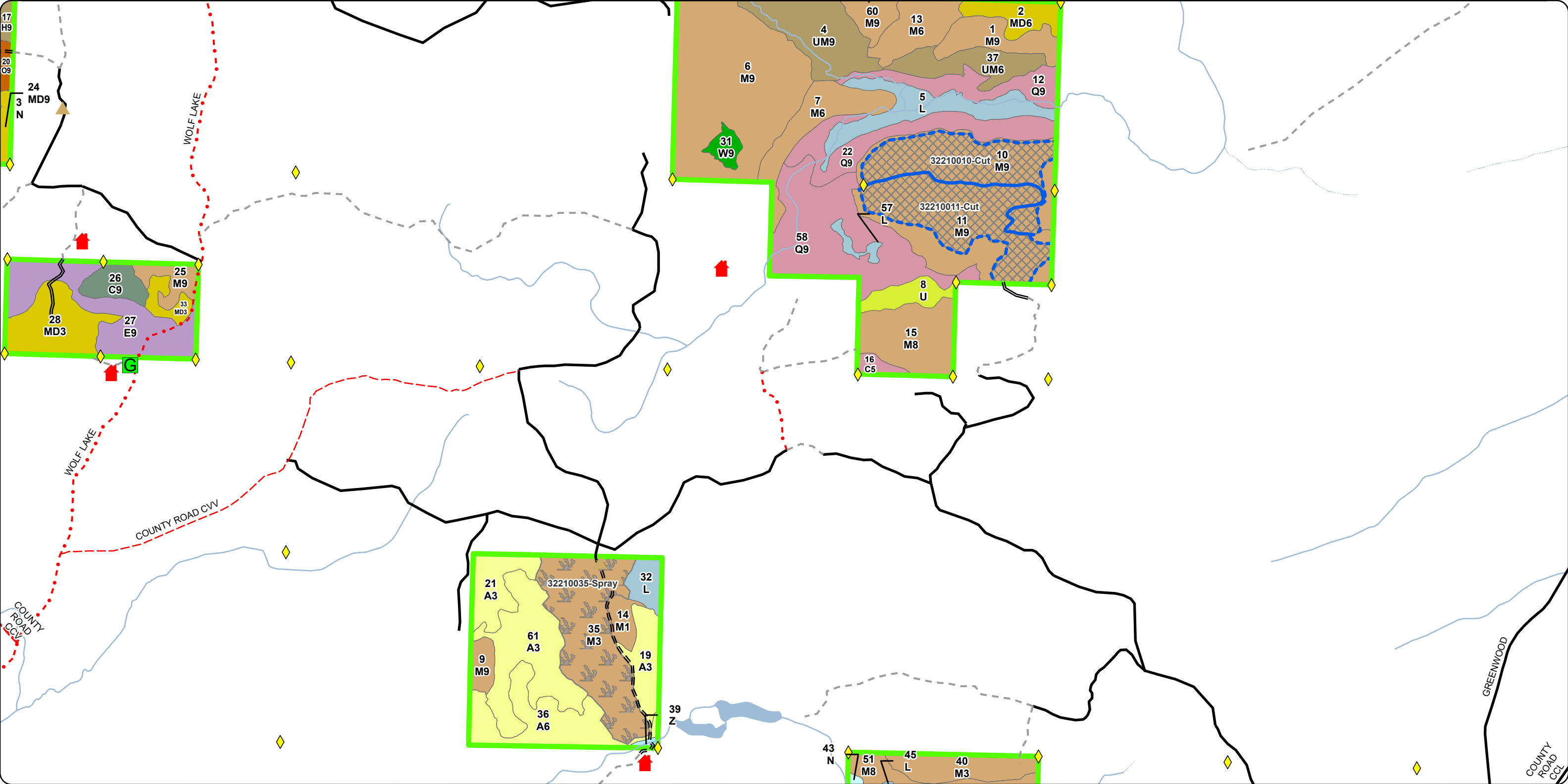
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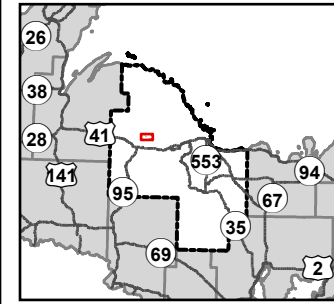
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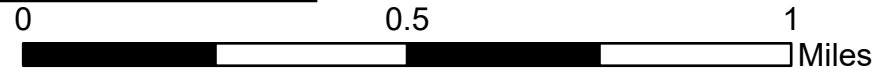
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Stand Boundary Map



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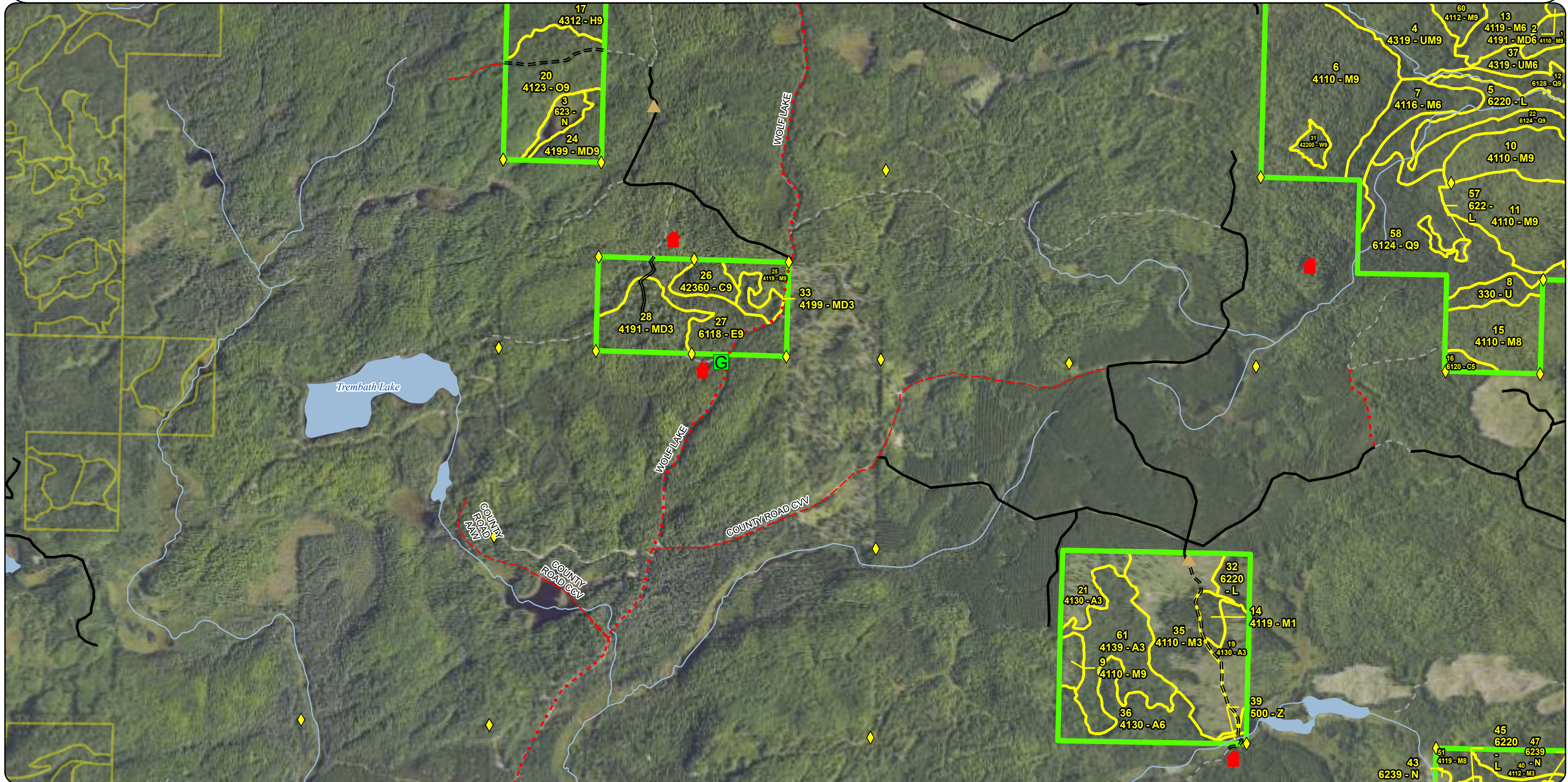
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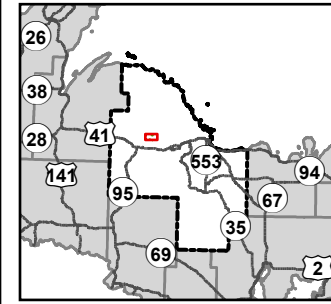
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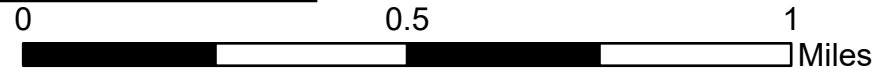
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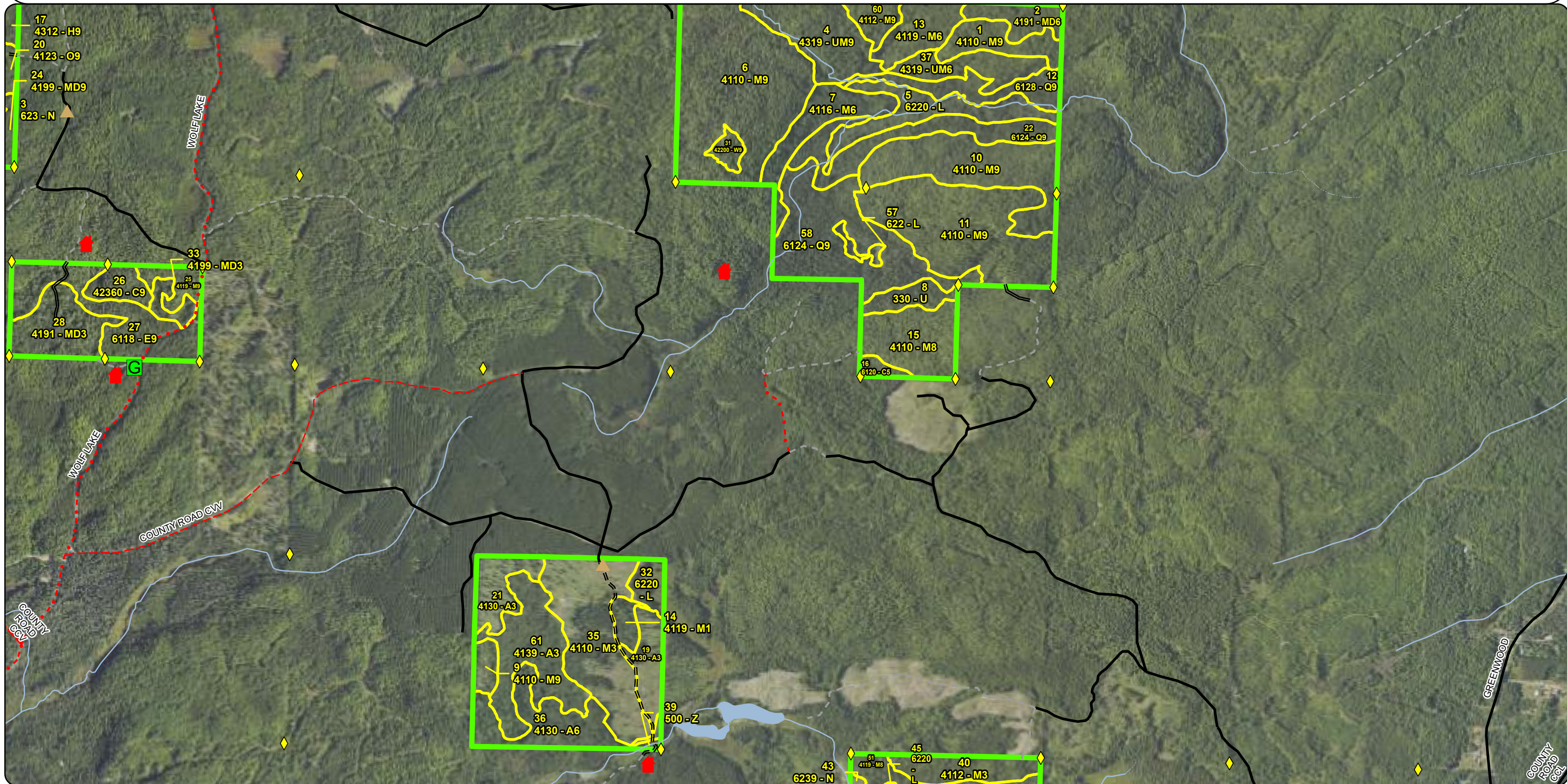


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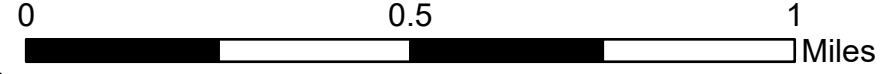
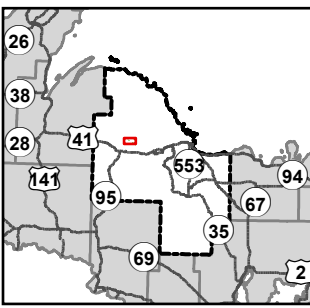
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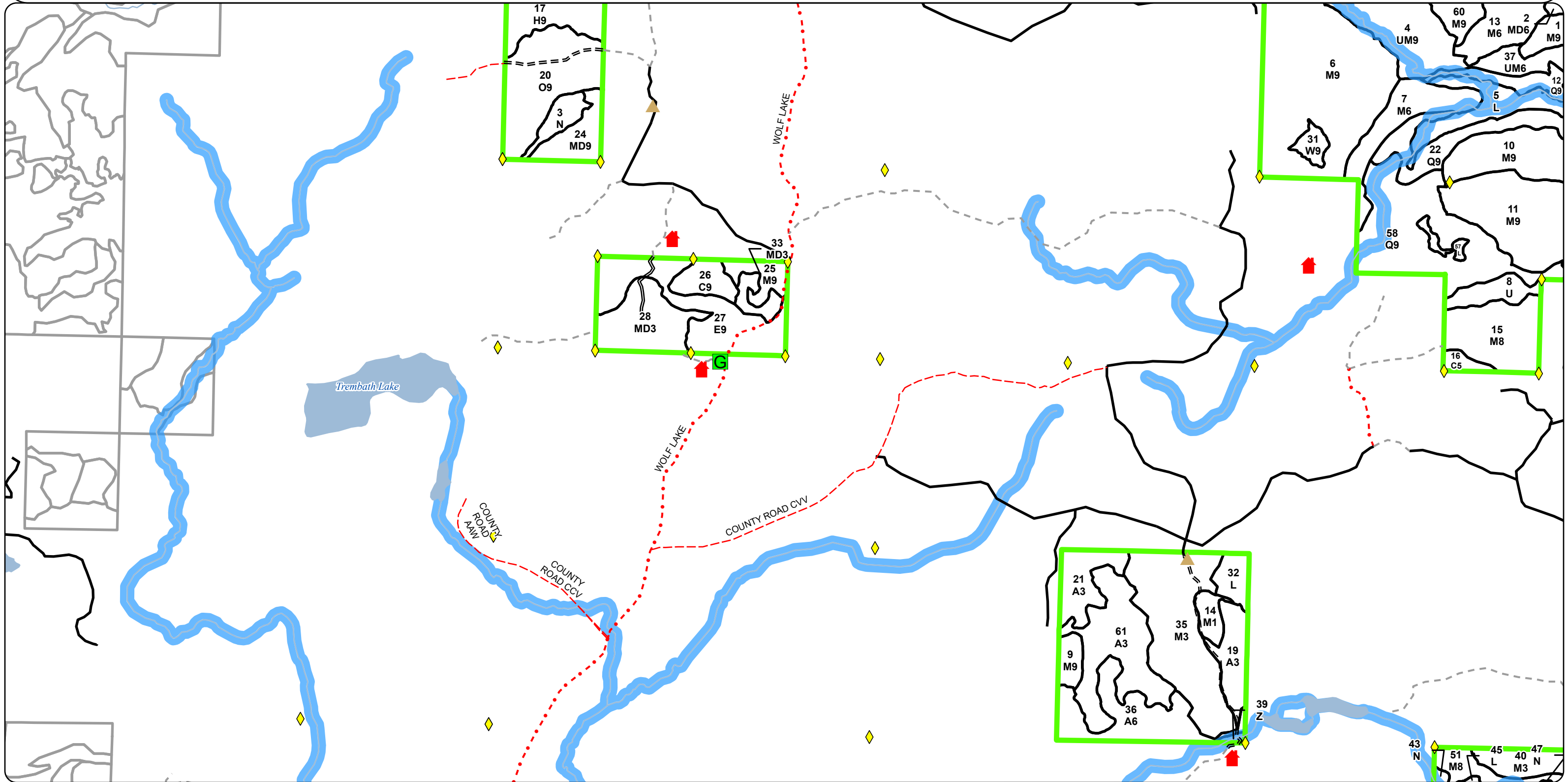


Special Conservation Areas & Site Conditions Map

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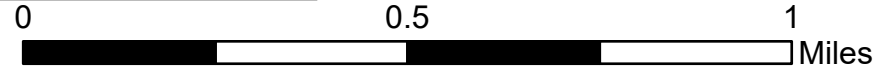


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- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer

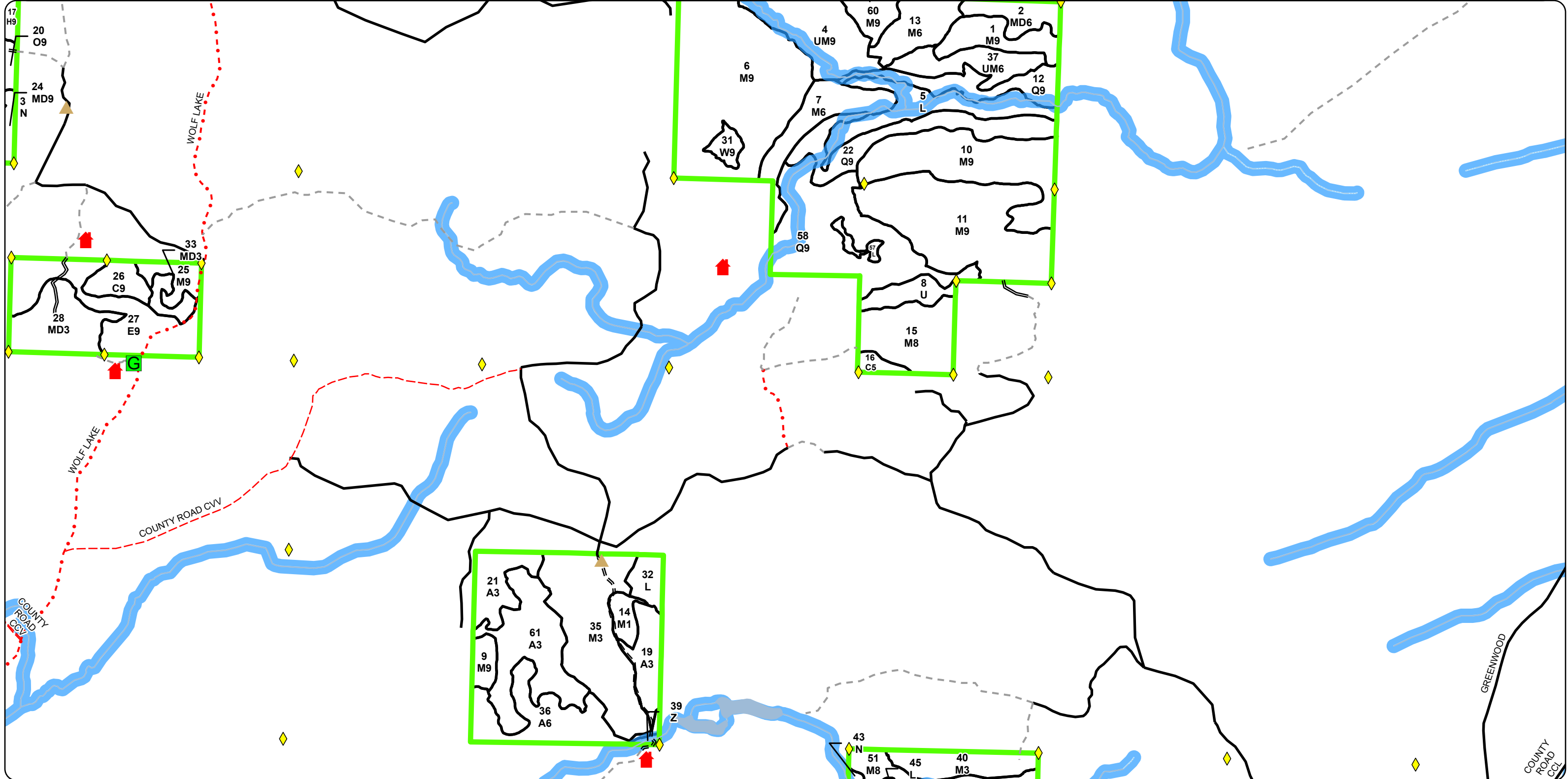


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	30	27	0	37	38	0	0	0	0	0	0	0	0	0	0	0	0	0	131
Cedar	0	0	0	0	0	0	0	0	0	0	3	0	9	0	0	0	0	0	11
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	24
Low-Density Trees	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	54	0	0	44	0	0	0	0	98
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	35
Lowland Shrub	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Marsh	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Mixed Upland Deciduous	0	0	29	0	0	0	0	0	0	0	0	12	0	11	0	0	0	0	51
Northern Hardwood	0	50	5	37	0	7	77	0	0	0	0	64	0	15	8	0	0	129	392
Oak	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	36
Paper Birch	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	7
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	31	0	47
Upland Spruce/Fir	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4
Total	113	77	34	74	38	7	77	0	0	7	57	76	9	86	8	4	55	200	919



Report 2 – Treatment Summary

Gwinn Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 210
Total Compartment Acres: 922

Commercial Harvest -
Harvests with Site Condition - 168
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
Northern Hardwood		0	84	0	0	0	0	0	0	0	84
	Total	0	84	0	0	0	0	0	0	0	84

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		84	0	0	0	0	49	0	0	0	133
Next Step		0	0	99	0	0	148	182	0	0	429
	Total	84	0	99	0	0	198	182	0	0	562



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
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Proposed Treatments:

10	32210010-Cut	37.9	4110 - Sugar Maple Association	9	51	81-110	Harvest	Selection	411 - Northern Hardwood	Current	No
<p><u>Prescription</u> Perform a TSI type thinning to improve stem quality and remove poor quality trees. Reduce basal area to 80 sq. ft. Keep some aspen stems within the stand for diversity. Do not harvest under-represented species such as yellow birch, cedar, hemlock, white p</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> Mixed deciduous and conifer species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Adjacent owner Steve Mettner has agreed to allow access for timber sale prep and timber harvest through his private 40 to the south. Steve can be reached at 906-250-3083</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
11	32210011-Cut	45.7	4110 - Sugar Maple Association	9	100	81-110	Harvest	Selection	4119 - Mixed Northern Hardwoods	Current	No
<p><u>Prescription</u> Perform a selection harvest on stand. Reducing basal area to 50 - 60 sq. ft. In areas with poor quality timber reduce the basal area further to promote regeneration. Do not harvest under-represented tree species such as pine, hemlock, cedar, yellow birch,</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> Mixed deciduous and conifer species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Adjacent owner Steve Mettner has agreed to allow access for timber sale prep and timber harvest through his private 40 to the south. Steve can be reached at 906-250-3083</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
35	32210035-Spray	49.4	4110 - Sugar Maple Association	3	3	Immature	Pesticide	Pesticide	4211 - Planted Red Pine	Planting Record	No
<p><u>Prescription</u> herbicide current competition and plant red pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Unfurrowed; Monitoring, Artificial Regen; Planting, Interplant; Pesticide, Aerial - Release; Pesticide, Aerial - Release; Pesticide,</p> <p><u>Treatments:</u> Drone - Site Prep; Monitoring, Artificial Regen</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></p> <p><u>Proposed Start Date:</u> 10/01/2025</p>											

Total Treatment 133
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jason Caron: Examiner

Compartment: 210
Year of Entry: 2027



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5F	2F	2G	3J
132	132	0	0	Aspen				
12	3	9	0	Cedar	9			
24	24	0	0	Hemlock				
9	9	0	0	Low-Density Trees				
72	0	0	72	Lowland Conifers			20	53
35	35	0	0	Lowland Deciduous				
41	41	0	0	Lowland Shrub				
21	21	0	0	Marsh				
52	41	0	11	Mixed Upland Deciduous		11		
387	353	0	34	Northern Hardwood		34		
36	36	0	0	Oak				
4	0	0	5	Paper Birch				5
47	31	0	16	Upland Mixed Forest		16		
8	8	0	0	Upland Spruce/Fir				
4	4	0	0	Water				
4	4	0	0	White Pine				
888	742	8	138	Total Forested Acres	9	61	20	57
	84%	1%	16%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
7	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	36	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer along stream. Wet ground with seeps throughout.								

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jason Caron: Examiner

Compartment: 210
Year of Entry: 2027



8	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	17	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Buffer along stream. Terrain is very steep.							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2F: Too steep	59	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: Rugged terrain precludes harvest.							
17	Available	5F: Evaluated for Forest Health Considerations	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is only 8 acres, of which about 1/2 is operable. Stand is also heavy to cedar.							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Excluded this area from the adjacent timber sale due to very wet ground conditions.							
19	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
1	4110 - Sugar Maple Association	Sawtimber Well	14.8	120	111-140	N/A	Stand of over mature sugar maple with yellow birch scattered throughout. Numerous areas within the stand would be inoperable due to rock cliffs and drainages.																																																											
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>95</td> <td></td> <td>17</td> <td>120</td> </tr> <tr> <td>Yellow Birch</td> <td>5</td> <td></td> <td>14</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	95		17	120	Yellow Birch	5		14		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Variable</td> </tr> <tr> <td>Sugar Maple</td> <td>Medium</td> <td>Variable</td> <td>Variable</td> </tr> <tr> <td>Yellow Birch</td> <td>Medium</td> <td>Variable</td> <td>Variable</td> </tr> <tr> <td>Ironwood</td> <td>Medium</td> <td>Variable</td> <td>Variable</td> </tr> </tbody> </table>				Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	Variable	Variable	Sugar Maple	Medium	Variable	Variable	Yellow Birch	Medium	Variable	Variable	Ironwood	Medium	Variable	Variable																									
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2	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	11.1	120	81-110	N/A	Stand of both deciduous and conifer growing on very rugged and rocky ground. Balsam understory is very thick in areas. Paper birch is falling apart and red maple shows signs of top dieback. Most of the stand is inoperable due to rugged terrain.																																																											
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3	623 - Emergent Wetland	None	6.7			No	Stand consists of a small beaver pond and emergent wetland.																																																											
4	4319 - Mixed Upland Forest	Sawtimber Well	30.6	160	81-110	N/A	Scattered super canopy white pine exists with red maple growing within the canopy gaps. Stand is in poor condition as the fir and spruce have died and fallen over. The remaining maple is poor quality due to the soil conditions. Portions of the stand are growing on a south facing slope. Some white pine are very large diameter																																																											
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5	6220 - Alder/Willow	None	23.6			No	Stream corridor. Tag alder throughout.																																																											
6	4110 - Sugar Maple Association	Sawtimber Well	85.4	140	81-110	N/A	OI notes from previous Inventory (Heikkila): Stand was comm. cut during 1996 - 1997 by Superior Mich. Hardwoods, Inc. from Niagara, Wis. (c/o Shawn Staples), "Barnhardt Creek Sale" permit #3-92. Also a small timber bridge was built by the contractor within the sale to cross a small creek. It was left in place. Note - this was the second cut made since the State has owned this. Some winters, the snow depth was too great to operate here. 2025 Inventory Notes: Stand was shelterwood harvested in the summer of 2022. Stand is doing very well post-harvest. Sugar maple dominates the understory, everything from saplings under 5' in height to large saplings 10-20' in height. Some cherry regeneration exists along with some white pine saplings here and there.																																																											
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7	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	20.7	29	Immature	N/A	Stand was cut in '96-'97 under permit # 3-92. Stand has grown into the pole size class. Sugar maple looks healthy. The aspen regeneration is poorer quality. Large white pine scattered throughout the stand. Inventory notes from 20 years ago mention severe moose browse. No moose activity when doing the inventory.																																																											
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8	330 - Low-Density Trees	None	8.6			No	Stand was harvested (clearcut) in 2023. Roughly a dozen large (26"+ dbh) white pine exist within the stand. Some red maple stump sprouts and black cherry stems are starting to fill in. Stand will fill in as it ages.																																																											
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9	4110 - Sugar Maple Association	Sawtimber Well	5.5	120	51-80	N/A	Stand was shelterwood harvested in 2022. TS# 107-17. Stand contains good log sized sugar maple and a few scattered red oak. Regeneration is starting to grow within the understory.																																																											
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10	4110 - Sugar Maple Association	Sawtimber Well	45.1	51	81-110	N/A	OI notes say this stand was cut hard probably back in the 60's. When looking at the stand I would agree. Stand has pockets of log trees and pockets of 8-10" poles. Stand is on a steep slope. I took an age on an aspen to get an idea of the age of the younger timber. I estimate the majority of the sugar maple to be of this age as well, 51 years. Numerous seeps and drainages within the stand. Old skid trails within the stand.																																																											
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11	4110 - Sugar Maple Association	Sawtimber Well	63.9	100	81-110	N/A	Stand was harvested in 2012:: TS# 305-08-01. Overall the stand has an average basal area of around 80-90 sq. ft. Some areas higher, some lower. Hold the stand for another 10 years and then combine stand 10 for a harvest.																																																											
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12	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	16.7	120	Unspecified	N/A	Creek bottom and floodplains of the Barnhardt Creek. Stand contains rocky areas and numerous seeps and drainages. Steep hillside along the North edge of this stand that slopes down to the wetland edge. White spruce is in poorer condition due to budworm. Black spruce is in good condition.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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13	4119 - Mixed Northern Hardwoods	Poletimber Well	16.3	50	1-50	N/A	Stand is growing on rock. Timber is poor quality due to shallow soils. Most of the fir and white spruce have fallen over. Sugar maple and red maple are poor quality due to shallow soil. Scattered white pine exists throughout the stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		2		10		Red Maple		Low	Variable	Variable	
Northern White Cedar		2		12		Sugar Maple		Low	Variable	Variable	
White Pine		5		18		Red Oak		Medium	5 - 10 feet	5 - 10 feet	
Red Maple		41	Seedling	7	50	Balsam Fir		Medium	Variable	Variable	
Sugar Maple		38	Seedling	7		White Pine		Low	5 - 10 feet	5 - 10 feet	
Balsam Fir		10		10							
White Spruce		2		15							

14	4119 - Mixed Northern Hardwoods	Sapling Poor	5.3	14	Immature	N/A	A seed tree harvest, stand was cut in 2011 TS#104-07-01. Stand has fully regenerated back to a mix of aspen, cherry, and fir. Good diversity for wildlife.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		5		17							
Black Cherry		75	Log	2	14						
Quaking Aspen		10	Log	2							
Balsam Fir		10	Log	3							

15	4110 - Sugar Maple Association	Sawtimber Medium	26.3	120	111-140	N/A	Stand was shelterwood harvested in 2024. TS# 107-17. Stand is in good condition with a decent stocking of sugar maple saplings within the understory. Stand will fill in nicely with regeneration given the low browse pressure in this area. Red maple stump sprouts are getting browsed currently. Cherry may fill in within the gaps depending on the amount of seed that exists within the soil.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		10		14		Red Maple		Low	< 5 feet	< 5 feet	
Sugar Maple		85		14	120	Black Cherry		Medium	< 5 feet	< 5 feet	
Black Cherry		5		10		Sugar Maple		Medium	10 - 20 feet	10 - 20 feet	
						Blackberry/Raspberry		Low	5 - 10 feet	5 - 10 feet	

16	6120 - Lowland Cedar	Poletimber Medium	3.3	91	81-110	N/A	Stand had a foot of water in it during my inventory in May 2025. Black ash is near dead with green epicormic branches but dead tops. Far west side of stand contains more red maple with slightly higher ground.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Yellow Birch		5		10		Yellow Birch		Low	Variable	Variable	
Black Spruce		5	Seedling	8		Balsam Fir		Low	Variable	Variable	
Red Maple		10	Seedling	8		Red Maple		Low	5 - 10 feet	5 - 10 feet	
Northern White Cedar		80		10	91	Northern White Cedar		Low	Variable	Variable	
						Tag Alder		Low	5 - 10 feet	5 - 10 feet	

17	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	23.7	220	111-140	N/A	A unique stand of hemlock mixed with red maple, yellow birch, paper birch, and a few scattered cedar. Stand is growing on rolling terrain, some high and some low. Hemlock and fir dominate the understory. I can see some old logging stumps within the stand from historic logging. The harvesting likely occurred 60+ years ago. The southern edge of the stand was thinned in 2011. The red maple was removed during this harvest. As a result, the hemlock regeneration within the gaps is impressive and doing well.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Hemlock		48		20	220	Hemlock		Medium	5 - 10 feet	5 - 10 feet	
Yellow Birch		10		16		Yellow Birch		Low	Variable	Variable	
Red Maple		30		13		Red Maple		Low	Variable	Variable	
Red Oak		2		17		Balsam Fir		High	Variable	Variable	
Paper Birch		5		11							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																			
18	4119 - Mixed Northern Hardwoods	Sawtimber Well	4.2	100	81-110	N/A	Stand selectively managed in 2011. TS#103-07-01. Small stand of hardwood. Basal area is still low but regeneration within the understory is very nice. Red oak regeneration is doing very well.																																																																			
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20	4123 - Red Oak	Sawtimber Well	36.4	100	81-110	N/A	Selectively cut in 2011. TS #103-07-01. Stand consists of decent quality oak but poorer quality maple. Very little if any oak was cut which makes the basal area high in some areas. Stand has rocky hills throughout with a swale/drainage that runs NE/SW.																																																																			
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22	6124 - Lowland Spruce-Fir	Sawtimber Well	27.4	120	Unspecified	N/A	Narrow stand at the base of a hardwood to the South and Wetland edge to the North and West. Stand contains a mix of conifer and deciduous. Ground appears wet with seeps throughout. Cedar, yellow birch and spruce are old and in poor condition. The understory consists of both conifer and deciduous of various ages.																																																																			
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24	4199 - Other Mixed Upland Deciduous	Sawtimber Well	12.0	100	81-110	N/A	Stand consists of a mix of red oak, red maple, and poorer quality paper birch. Mature fir has died as a result of the budworm outbreak. Ground is rocky and soil is shallow. A carpet of red oak seedlings exists on the forest floor due to the heavy acorn crops from the last few years. A lot of coarse woody debris exists within the stand due to the dead fir falling over within the stand. Northernmost portion of stand contains a mix of sugar maple & yellow birch.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	2		18		Red Oak	High		< 5 feet	< 5 feet
Yellow Birch	2		18		Balsam Fir	Medium		Variable	Variable
Northern White Cedar	2		14						
Paper Birch	27		12						
Red Maple	27	Seedling	8						
Red Oak	40		14	100					
25	4119 - Mixed Northern Hardwoods	Sawtimber Well	7.7	114	81-110	N/A	Stand was selectively cut in 2011. TS#104-07-01. Maple is poorer quality. I noticed some top dieback of the maple along the Wolf Lake Road within this stand. The red oak is nice quality and large in diameter. Some areas were marked light while other areas were marked heavier. A low area within the stand exists in about the center of stand. This area was red lined out and not cut during the harvest. Paper birch is in decline due to age. Overall, basal area is low throughout the stand. Regeneration is good within the understory.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	5		12		Balsam Fir	Medium		Variable	Variable
Red Oak	15		20		Bigtooth Aspen	Low		Variable	Variable
Red Maple	30		10		Ironwood	Medium		Variable	Variable
Yellow Birch	5		10		Hazelnut (Spp.)	Low		5 - 10 feet	5 - 10 feet
Sugar Maple	45		12	114	Red Oak	Low		5 - 10 feet	5 - 10 feet
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26	42360 - Upland Cedar	Sawtimber Well	8.5	118	81-110	N/A	Stand of upland cedar that is growing on rock. Fir has died due to the budworm outbreak. Some large white pine exists on the far west edge of stand. Stand slopes down to the south and west.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	10		10		Balsam Fir	Low		Variable	Variable
Northern White Cedar	66		15	118					
Yellow Birch	2		15						
White Pine	2		22						
Red Maple	20	Seedling	9						
27	6118 - Lowland Deciduous with Cedar	Sawtimber Well	35.4	118	111-140	N/A	Lowland stand with a mix of deciduous and conifer. Soil is very wet with a heavy organic component of black muck. Mature ash, fir, and spruce have fallen out of the stand due to EAB and spruce budworm. A fir understory still exists. Stand varies in age from old pockets of mature cedar to younger trees consisting of red maple and yellow birch. Old OI notes state: "area didn't sell in 1976. Parks cut some cedar in the winter of 1977".		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	33		10		Balsam Fir	Medium		Variable	Variable
Northern White Cedar	32		12	118	Yellow Birch	Low		Variable	Variable
Yellow Birch	33		10	118	Red Maple	Low		Variable	Variable
Paper Birch	2	Sapling	5		Northern White Cedar	Low		< 5 feet	< 5 feet
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					White Spruce	Low	Variable	Variable	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
28	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	23.3	14	Immature	N/A	Stand was harvested in 2011: TS#104-07-01. Stand has regenerated back very well to a mix of deciduous and conifer. Scattered x-log size oak remain in the stand. Stand is very diverse and healthy.																																																				
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29	4130 - Aspen	Poletimber Well	5.6	38	1-50	N/A	Stand of healthy aspen. A dense subcanopy of sugar maple exists within the understory. North edge of stand contains a few large diameter sugar maple. Allow stand to grow 10 more years and prescribe in the next YOE.																																																				
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31	42200 - Natural White Pine	Sawtimber Well	4.2	140	111-140	N/A	Small stand of log sized white pine. Stand appeared to be rocky but was hard to tell due to snow depth. White pine is good quality.																																																				
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35	4110 - Sugar Maple Association	Sapling Well	49.5	3	Immature	N/A	Stand was harvested in 2023. TS# 107-17. Regeneration is poor given a large majority of the previous stand consisted of spruce and fir. Cherry exists throughout the stand. A few scattered mature red pine and white pine exist throughout the stand.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
36	4130 - Aspen	Poletimber Well	28.2	38		N/A	Stand was harvested in 1987 - 1989. TS# 13-87. OI notes state that oak and cherry were left within the cut. Stand consists of healthy aspen. A dense subcanopy of sugar maple exists within the understory. The northern edge of the stand contains a few larger diameter sugar maple. Fir is in poor condition due to age and budworm damage. Consider harvesting this stand in the next YOE.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir		10	Seedling	9		Sugar Maple		
Quaking Aspen		60	Seedling	8	38	Red Maple		
Sugar Maple		10		10		Balsam Fir		
Bigtooth Aspen		10		10		Density		
Red Maple		10		11		Avg. Height		
						Size		
37	4319 - Mixed Upland Forest	Poletimber Well	16.2	120	81-110	N/A	Stand of mixed deciduous and conifer on a steep slope towards the Barnhardt Creek. Paper birch is in decline with numerous dead tops throughout the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		10		10		Balsam Fir		
Paper Birch		35		10	120	Sugar Maple		
Balsam Fir		20	Seedling	8		Tag Alder		
White Pine		10		16		Red Maple		
White Spruce		25		12	120	Density		
						Avg. Height		
						Size		
39	500 - Water	None	1.0			No	Small beaver pond.	
40	4112 - Maple, Beech, Cherry Association	Sapling Well	16.1	25	Immature	N/A	OI Comments- Seed tree cut in 1999, TS#13-97-01. Stand has fully regenerated back to red maple with some fir and oak mixed in as well. Fir is in poor condition due to budworm.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		80	Log	2	25	White Pine		
Balsam Fir		10	Log	2		Yellow Birch		
Red Oak		5	Log	3		Sugar Maple		
Sugar Maple		5	Log	2		Balsam Fir		
						Black Spruce		
						Blueberry/Bilberry/Cranberry		
						Red Oak		
						Density		
						Avg. Height		
						Size		
43	6239 - Mixed Emergent Wetland	None	3.7			No	Beaver pond.	
44	42330 - Upland Fir	Unspecified	7.8	0	Immature		Stand was part of the Pelto's Farm SBW sale but was never cut. Balsam has since died and fallen over. A few remnant pole sized red maple and black cherry exist within the stand. Stand will eventually seed back into a mix of coniferous and deciduous species.	
45	6220 - Alder/Willow	None	8.2			No	Mostly tag alder with scattered trees throughout.	
47	6239 - Mixed Emergent Wetland	None	10.9			No	A series of beaver ponds and associated marshes.	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
49	4112 - Maple, Beech, Cherry Association	Poletimber Well	7.4	40	51-80	N/A	Stand consists of red maple mixed with a few paper birch. Mature fir has died as a result of budworm. The red maple within the stand is of various ages and diameters.																																												
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51	4119 - Mixed Northern Hardwoods	Sawtimber Medium	15.7	50	51-80	N/A	Portions of the stand are very rugged and rocky. Mature balsam fir has died due to budworm. Paper birch is in decline due to age and poor soil conditions. Stand acts as a buffer to adjacent beaver flooding. Mature timber is patchy depending on where you are within the stand.																																												
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52	4140 - Other Upland Deciduous	Sawtimber Well	6.9	88	141-170	N/A	Stand was left as a buffer along the stream. Paper birch is old and falling apart. Balsam fir, red maple and white spruce will eventually take over the stand as the paper birch continues to decline. Most of the paper birch contain dead tops. I was able to core a white spruce @ 102 years of age.																																												
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55	4130 - Aspen	Poletimber Well	4.4	36	51-80	N/A	Cut between '87-'89 under permit #13-87. Red oak and cherry were left within the cut. Stand of poorer quality aspen due to the poor soils. Stand has a mix of species within the understory. Allow adjacent stand to green up and consider prescribing it in the next YOY.																																												
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56	500 - Water	None	3.0			No	Small pond which was buffered during recent timber sale. Moose activity exists within the pond.																																												
57	622 - Lowland Shrub	None	2.6			No	Flooded (dead) timber due to beaver activity.																																												
58	6124 - Lowland Spruce-Fir	Sawtimber Well	54.4	96	Unspecified	N/A	Lowland stand of mixed conifer. Pockets of mature tamarack, black spruce and cedar. Stream flows through the NW corner of the stand. Some young pockets of balsam mixed with cedar regeneration. Very large tamarack within the stand. Stand is very wet. Do not manage.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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60	4112 - Maple, Beech, Cherry Association	Sawtimber Well	8.3	130	111-140	N/A	Stand of northern hardwood. A nice group of large red oak exists within the northwest corner of the stand. Remainder of the stand is dominated by sugar maple with some red maple scattered within it. Hardwood quality is low with mostly pulpwood. Log quality is low. Some red oak regeneration exists near mature red oak stems. A couple of white pine and spruce scattered along the edge of the stand. A ravine exists in the center of the stand which is most likely wet in the spring and fall.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40		14		Balsam Fir	Medium	>20 feet	>20 feet
Sugar Maple	53		14	130	Sugar Maple	Low	< 5 feet	< 5 feet
Red Oak	5		18		Red Oak	Low	< 5 feet	< 5 feet
Yellow Birch	2		12					

61	4139 - Aspen, Mixed Deciduous	Sapling Well	36.5	26	Immature	N/A	Stand was clearcut with reserves in 1999: TS#13-97-01. Stand contains a healthy stocking of aspen. Fir and white spruce have died out due to budworm.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	55	Log	4	26	Sugar Maple	High	Variable	Variable
Sugar Maple	35	Sapling	5		Quaking Aspen	Medium	Variable	Variable
White Pine	5		20		Balsam Fir	Medium	Variable	Variable
Paper Birch	5	Log	2		Paper Birch	Low	Variable	Variable