



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32209

Entry Year 2023

Acreage: 1,629

County Marquette

Management Area: Peshekee Highlands

Revision Date: 2021-08-03

Stand Examiner: Jason Caron

Legal Description:

T49N R28W Sec. 35 except N1/2NE and NENW; T 48N R28W NWNE, NWSW, S1/2S1/2 Sec 2, NE, NENW Sec 3, NWNW Sec 11, Sec 12 in it's entirety; T47N R27W Sec 7 NWSE (16 acres).

Identified Planning Goals:

Management in this compartment will continue to focus on timber production and providing wildlife habitat as well as protecting water quality. Timber within this compartment is medium quality; therefore focus will be on both fiber production and quality sawlog development. The hardwood cover type will be managed as both even age and uneven age where appropriate. Softwood will be managed solely as even age. Managing these cover types as such, will continue to provide diverse wildlife habitat. Applying proper Best Management Practices (BMP's) during timber sale activities will ensure water quality protection. Several harvests are being prescribed during this entry period including selection, and clearcut.

Soil and topography:

Soils within the compartment are of the Keewaydin-Michigamme-Rock Outcrop (KMR) and Kalkaska-Carbondale-Deford (KCD) Association's. The KMR's tend to be deep well drained loams to silty loams over gravelly and sandy tills and igneous or metamorphic bedrock. KCD associated soils are very deep and range from being somewhat excessively drained (Kalkaska) to very poorly drained (Carbondale). Topography is nearly level to gently rolling hills. This compartment resides on the edge of a larger outwash plain to the east and very rugged rock outcrops and hills to the north and west.

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

Primary ownership within this portion of the landscape is industrial forest land. Scattered private parcels are intermixed. There is very little state or public land in this area. Land use is timber production and recreation, predominantly camps. The Silver Lake and Dead River Basin's are in this area and provide ample water based recreational opportunities as well as a water source for hydro-electric power. The Goldmine Lake Location is located to the south approximately 2 to 3 miles.

Unique Natural Features:

Potential for osprey, eagle, and great blue heron rookery. Potential for red shouldered hawk and goshawk. Potential for moose and wolf. Potential for wood turtle in Barnhardt Creek. Potential for tway-blade, western dock, veiny meadow-rue, and linear-leaved gentian along riparian areas. Potential for Farwell's water-milfoil and alternate-leaved water-milfoil in shallow lakes. Potential for purple clematis in dry mesic-conifer stands. Potential for Assiniboia sedge, male fern, and goblin moon wart in mature northern hardwoods. Potential for dwarf bilberry, wild oat grass and Canada rice-grass in grassy openings and in clearings in jack pine. Potential for big-leaved sandwort, rock whitlow-grass, northern gooseberry Douglas's hawthorn, northern oak fern, northern woodsia, and slender cliff-brake if exposed rock outcrops are present.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

Barnhardt Creek is a cold water trout stream that is being impacted by beaver dams. This stream would provide a much better brook trout resource if beaver impacts were reduced. When setting up harvests maintain proper BMP buffers to protect water quality.

Wildlife Habitat Considerations:

Compartment 209 is found within the Peshekee Highlands Management Area; on a Bedrock Controlled Ground Moraine in east central Baraga and northwestern Marquette County. The dominant Natural Communities are mesic northern forest, poor conifer swamps, and boreal forests. This management area receives significant snowfall and does not offer wintering habitat for deer. As a result, many tree species that do not reliably recruit across the Ecoregion are found in numerous age classes across this management area. Additionally, three of the largest tracts of mature forest in the Great Lakes

(e.g. McCormick Tract, Craig's Lake Wilderness State Park, and the Huron Mountain Club) occur within or adjacent to this management area, the best example of a dry mesic northern forest (Rocking Chair Lakes) in the state and two of the top eight examples of Mesic Northern Forest statewide occur here. The current condition and spatial arrangement of these areas provide some of the best opportunities within the WUP, state, and Great Lakes for area sensitive wildlife requiring large tracts of mature forest, mesic conifer or corridors between such areas. Wildlife management issues in this management area are: habitat fragmentation; coarse woody debris; retain or develop large living and dead standing trees (for cavities); mesic conifer; mature forest; within-stand diversity; early successional forest (hardwood browse adjacent to closed canopy lowland conifer swamps); and coarse woody debris.

The following have been identified as featured species for the Peshekee Highlands Management area: American marten, blackburnian warbler, gray jay, moose, northern goshawk, and pileated woodpecker.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. No active sand/gravel pits occur in the area. Bedrock is at or near the surface across much of the area, but there may be some potential for sand & gravel where significant glacial drift overlies bedrock. The State does not own the mineral rights to the southern parcel in Sec 7. The parcel occurs within the Marquette iron district, but mineral potential for this parcel is considered minimal. The northern parcels, representing the majority of the compartment, lie near, but outside, the region of historic gold and silver exploration. The geologic setting for the compartment differs from those areas targeted in the past for gold and silver. However, State-owned mineral rights in the compartment have been leased in the past, so there may be potential for metallic minerals beneath the compartment. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Access is good throughout the compartment. County roads CL, CCO, CCH and AAH provide the main access with secondary roads providing subsequent access. Several of the county roads have not been maintained in some time and have turned into semi-overgrown woods roads.

Survey Needs:

No survey needed.

Recreational Facilities and Opportunities:

There currently are no recreational facilities or opportunities within this compartment.

Fire Protection:

Access to the area for fire protection is good. Timber types prone to fires are the lowland spruce and upland spruce fir stands. There are adequate water sources within the compartment.

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**

Report 1 – Total Acres by Cover Type and Age Class

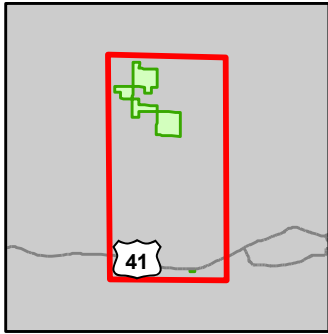


Age Class

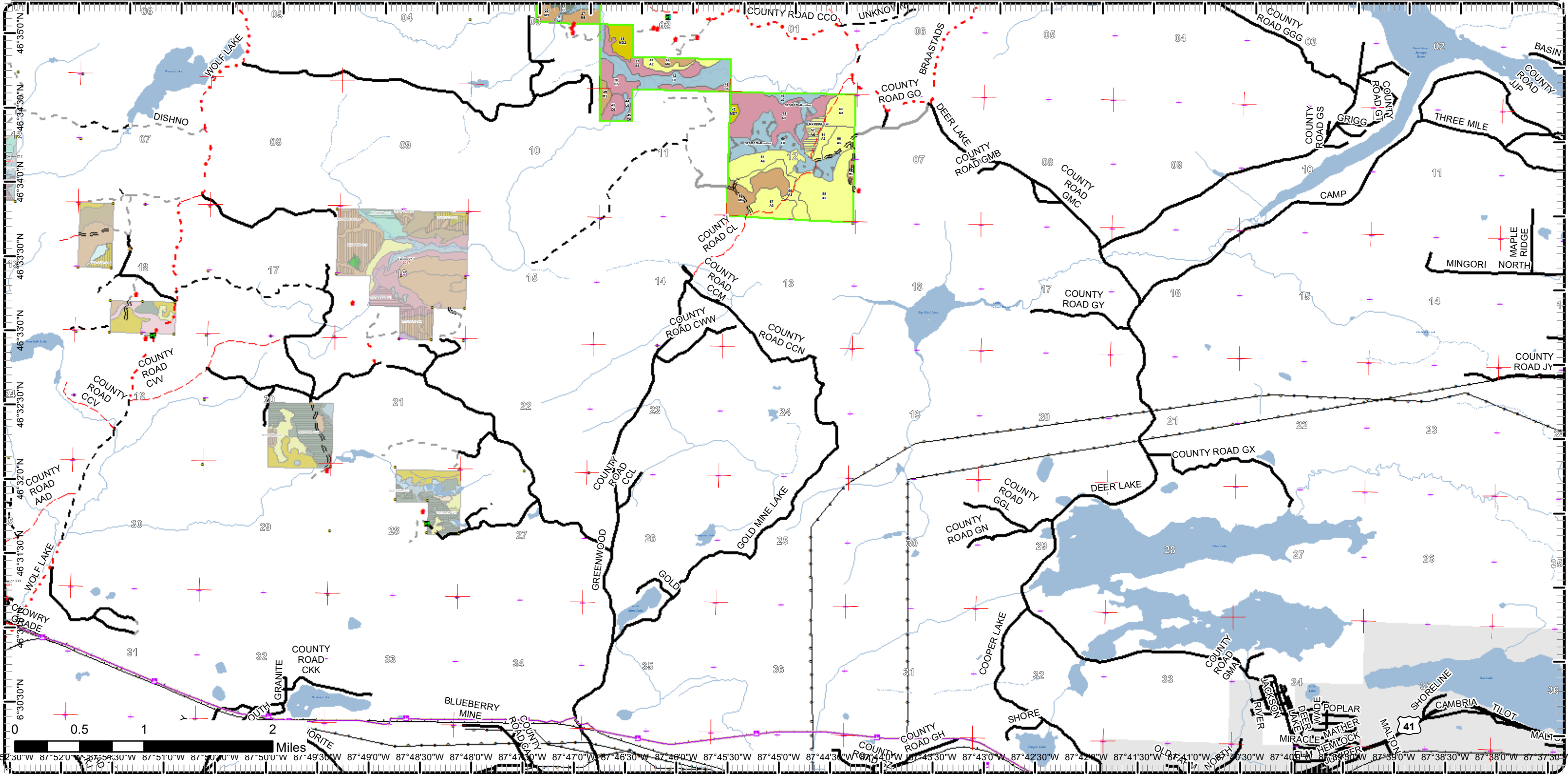
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	77	125	201	129	55	0	0	0	6	0	0	0	0	0	0	0	0	593
Cedar	0	0	0	0	0	0	0	11	16	0	0	0	18	0	0	0	0	0	45
Herbaceous Openland	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Low-Density Trees	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80
Lowland Conifers	0	0	0	0	0	0	0	0	0	128	40	0	0	0	0	0	0	0	166
Lowland Deciduous	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Shrub	261	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	261
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	28	14	34	0	0	0	0	0	0	76
Mixed Upland Deciduous	0	27	14	0	0	6	0	9	0	0	0	0	0	0	0	0	0	0	56
Northern Hardwood	0	0	12	0	0	0	0	0	54	36	69	42	25	0	43	0	0	0	280
Upland Mixed Forest	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	10
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Total	370	114	176	201	129	61	0	20	70	198	123	76	53	0	43	0	0	0	1630

Overview Map

Compartment: 209
 T46N,R24W, Sec. 13, 23, 25, 31-34
 County: Marquette
 Unit: Gwin
 Mgmt Area: Peshekee Highlands
 YOE: 2023
 Acres: 1628.5 GIS Calculated
 Examiner: Jason Caron
 Map Revised: 8/13/2021
 Map Phase: Review

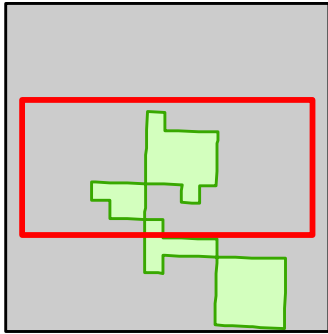


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Active Railroads
- Snowmobile Trails
- Designated Hiking Trails
- Designated Snowmobile Trails
- Designated RailTrail
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- Island in Lake or River
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- Perennial River
- Lakes and Rivers
- Powerline
- Cities
- Compartment Boundary
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 612 - Lowland Coniferous Forest
- 622 - Lowland Shrub

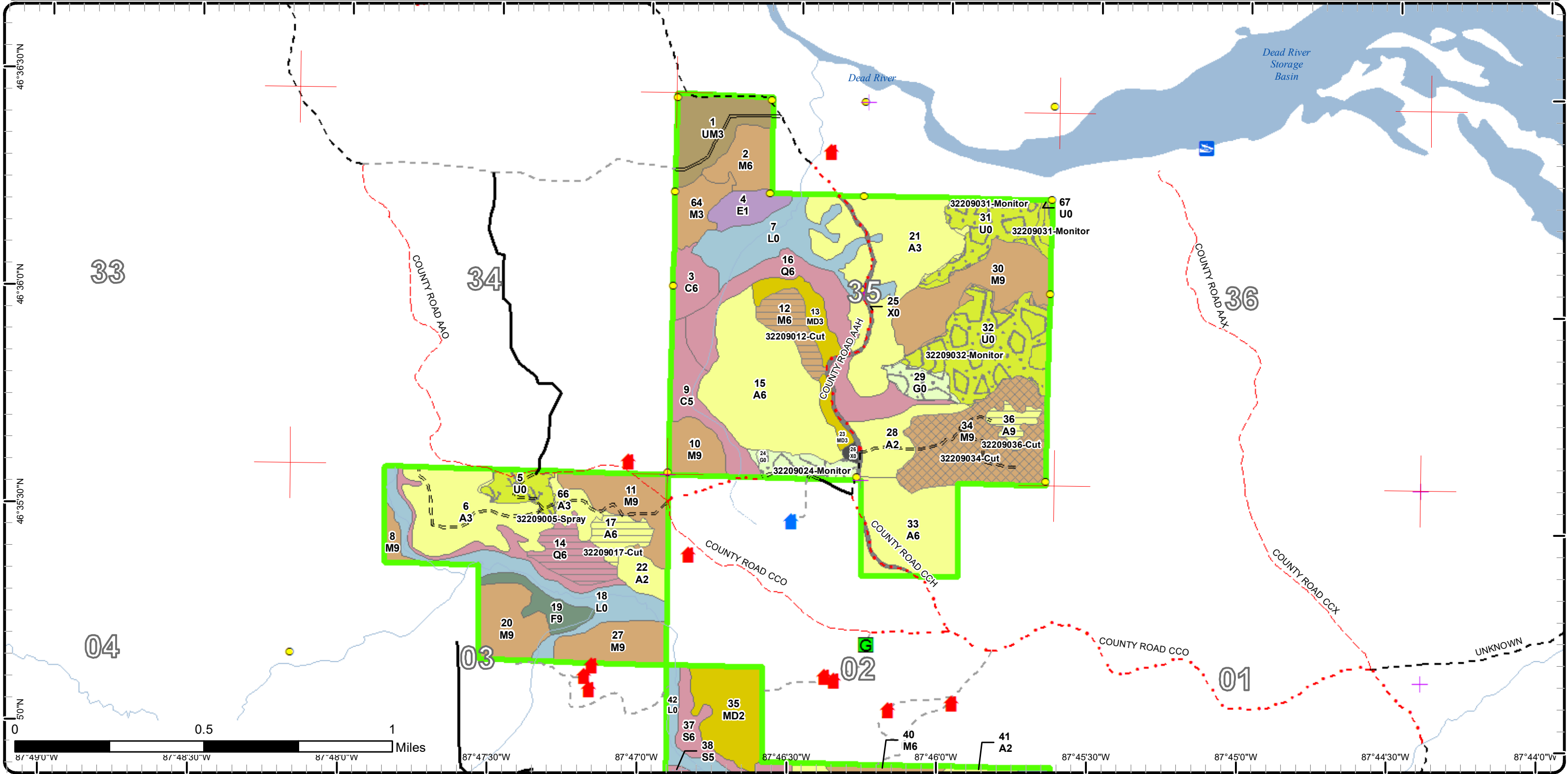


Cover Type & Treatments Map

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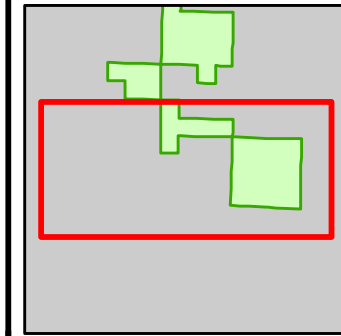


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- Cabin
- House
- Gate
- Boating Access Site
- Intermittent Stream
- Island in Lake or River
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- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Pesticide
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
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- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 123 - Other High Intensity Urban
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub

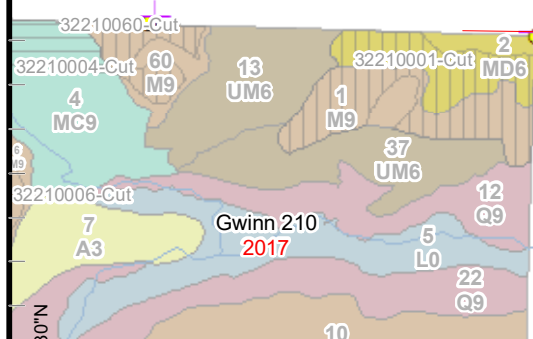
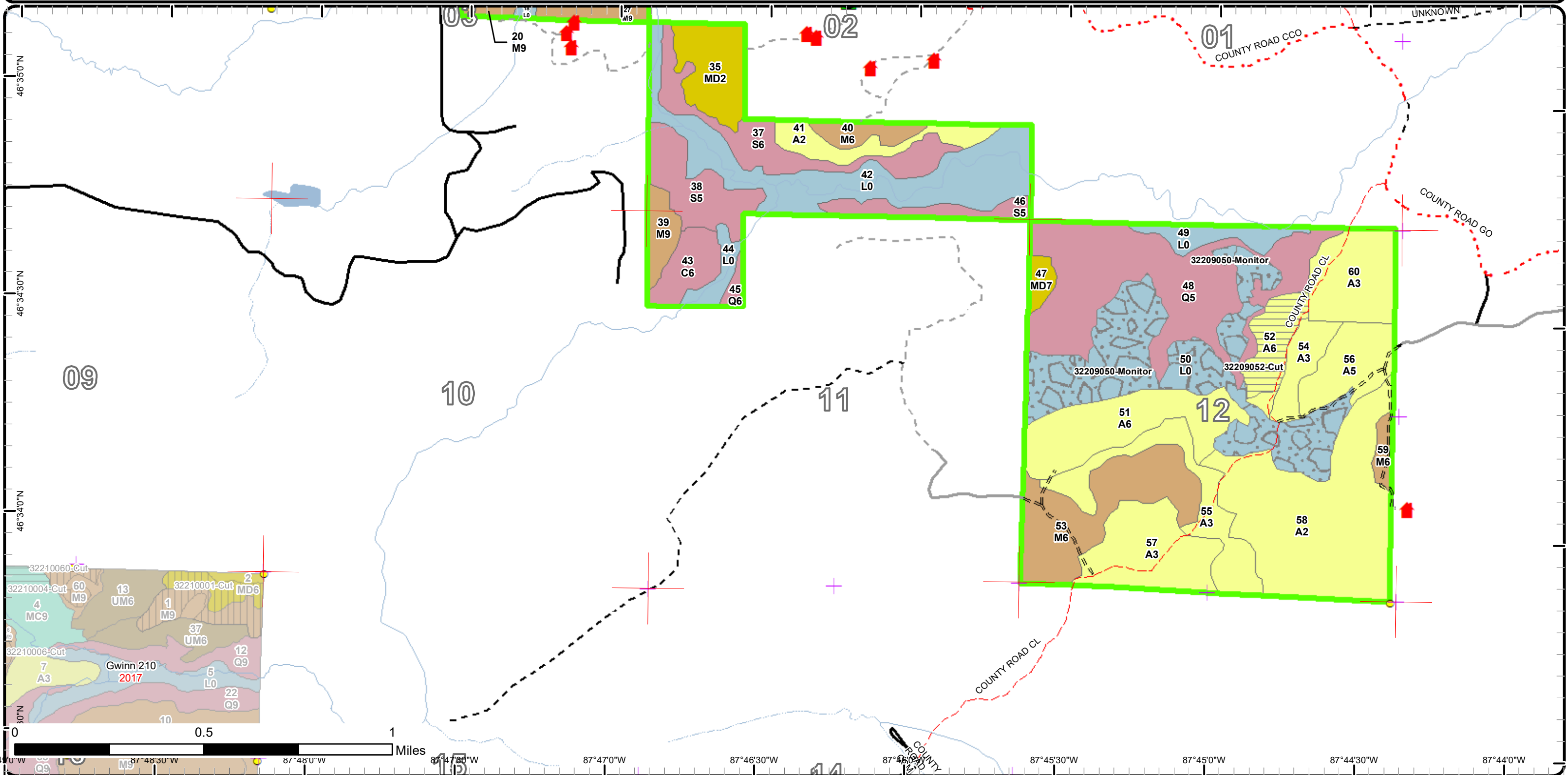


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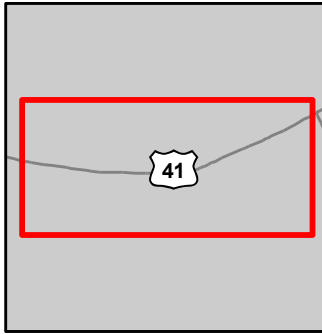


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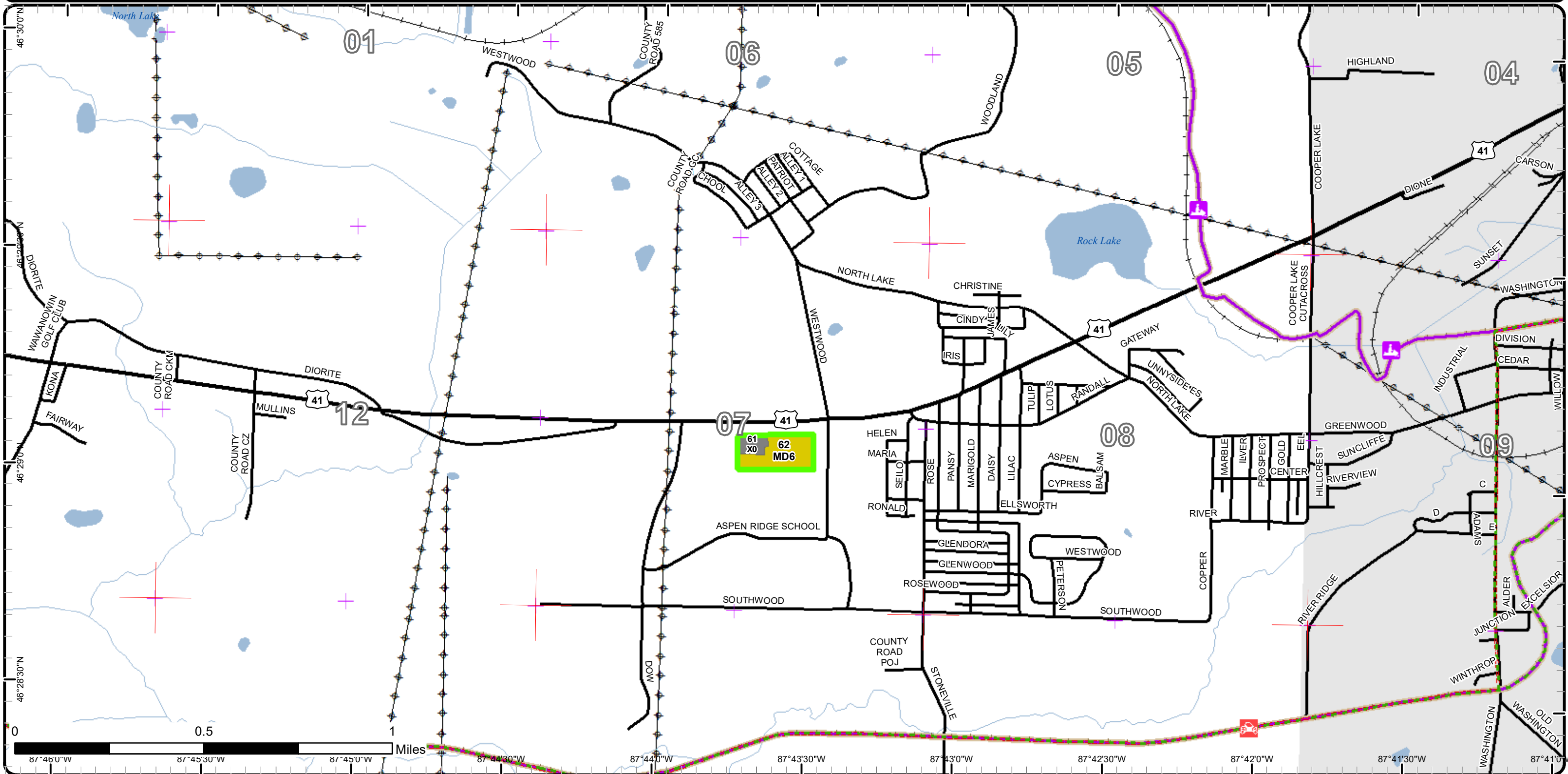


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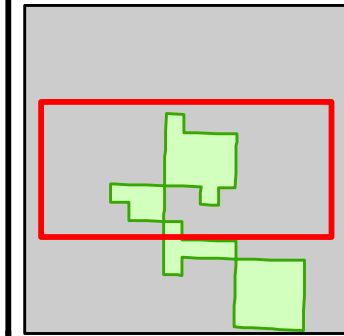


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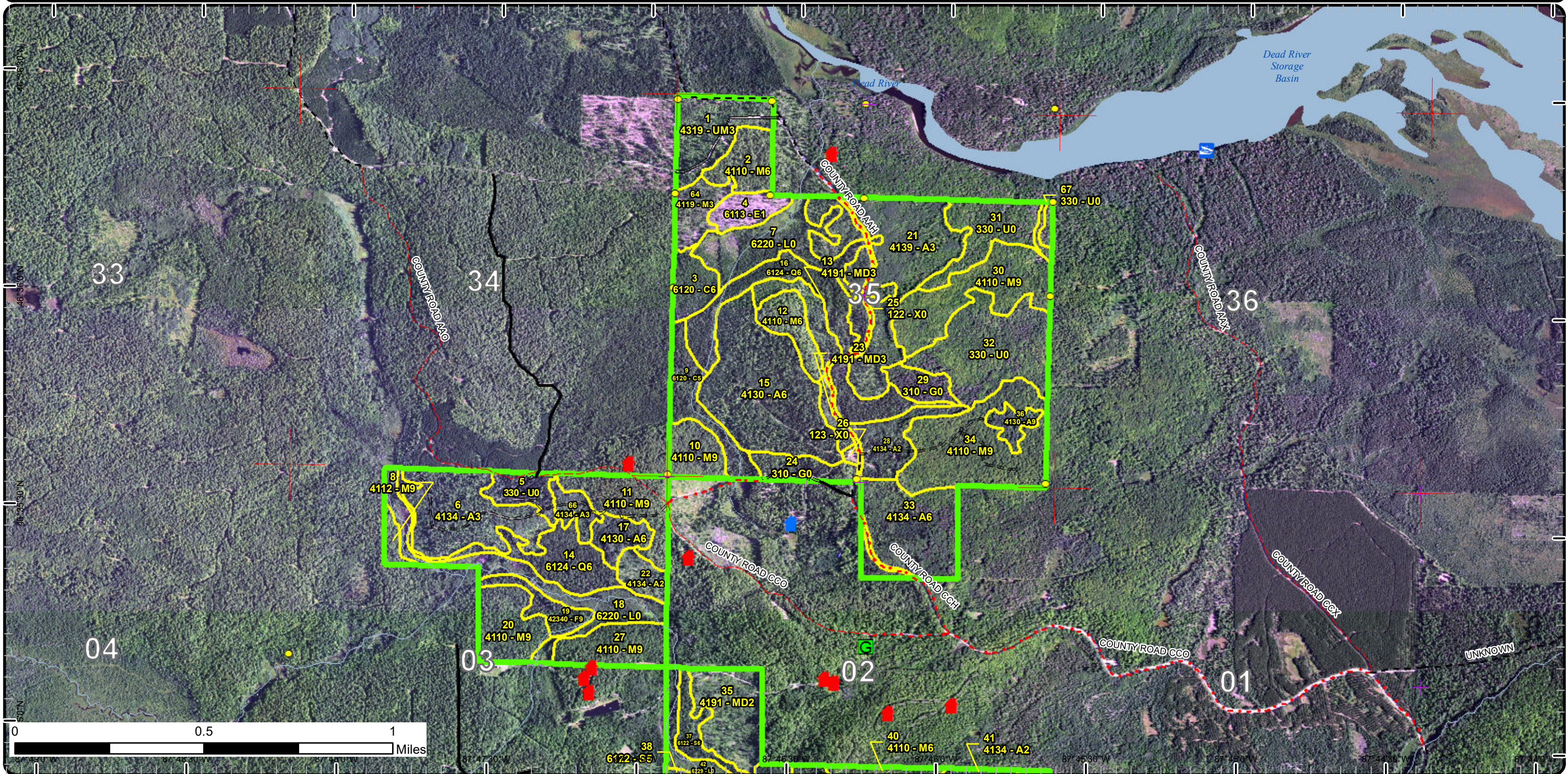


Stand Boundary Map

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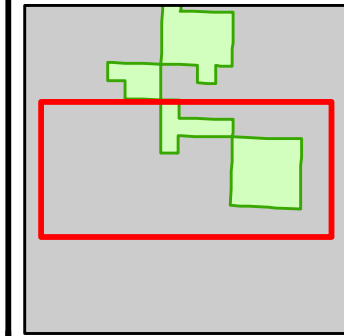
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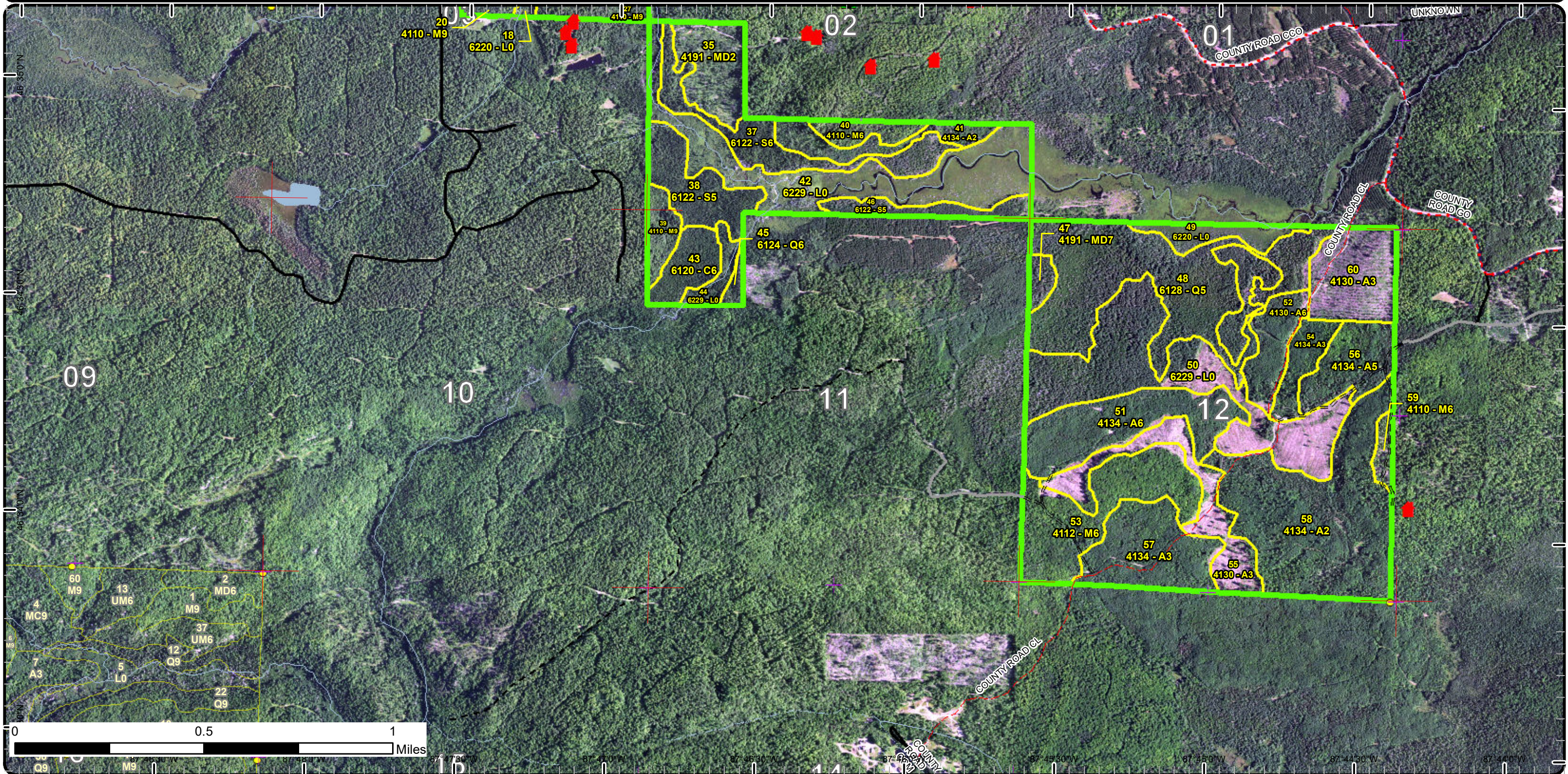
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 UNKNOWN
 Dead River
 Dead River Storage Basin

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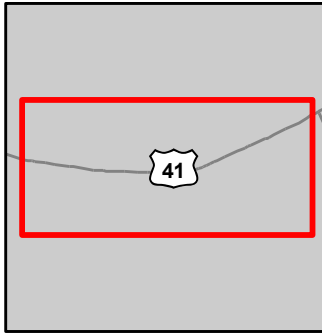


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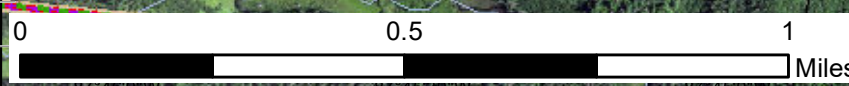


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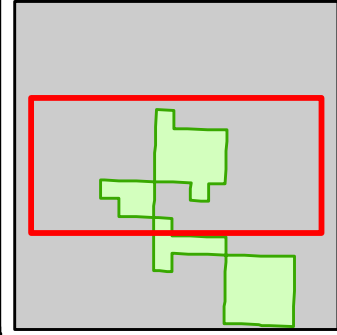


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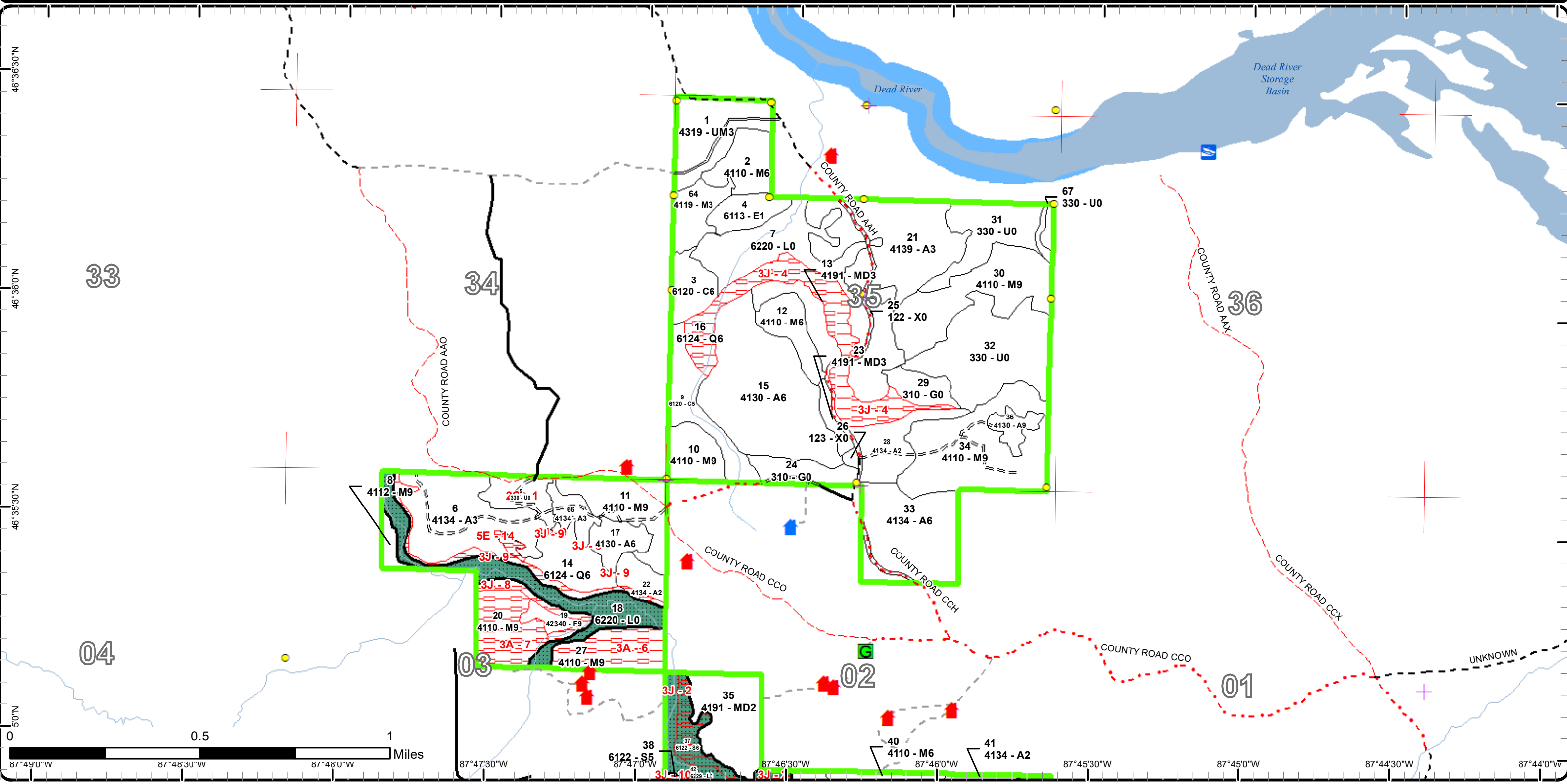
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Special Conservation Areas



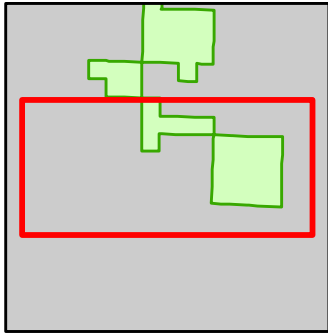
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- Compartment Boundary
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Habitat Corridor

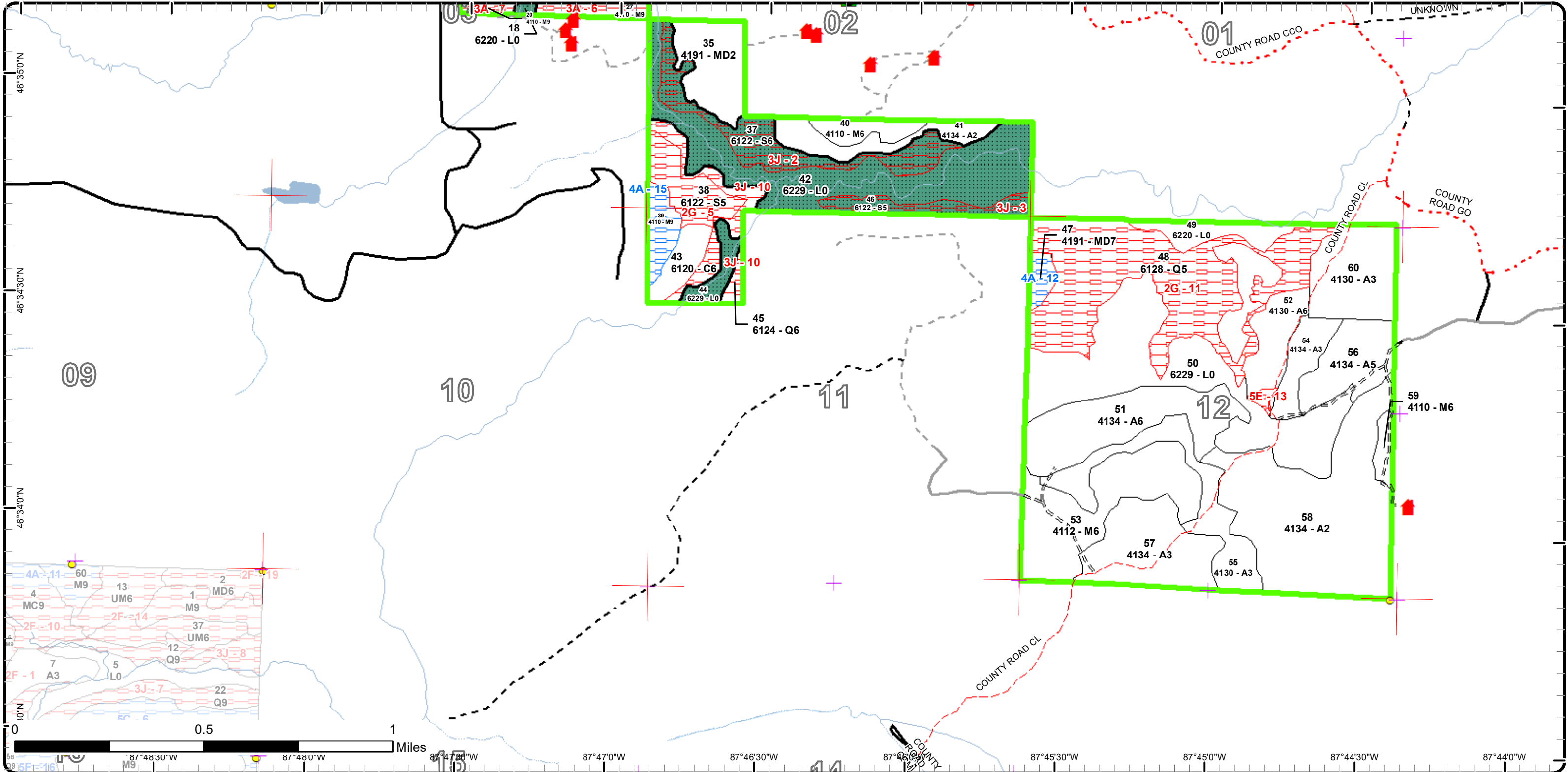


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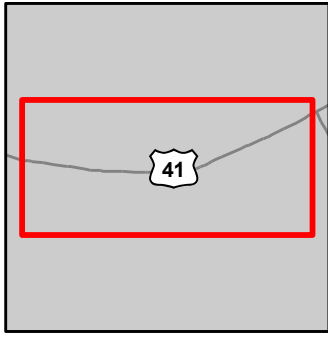


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 4A: No Markets Available for these Forest Products
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- Habitat Corridor

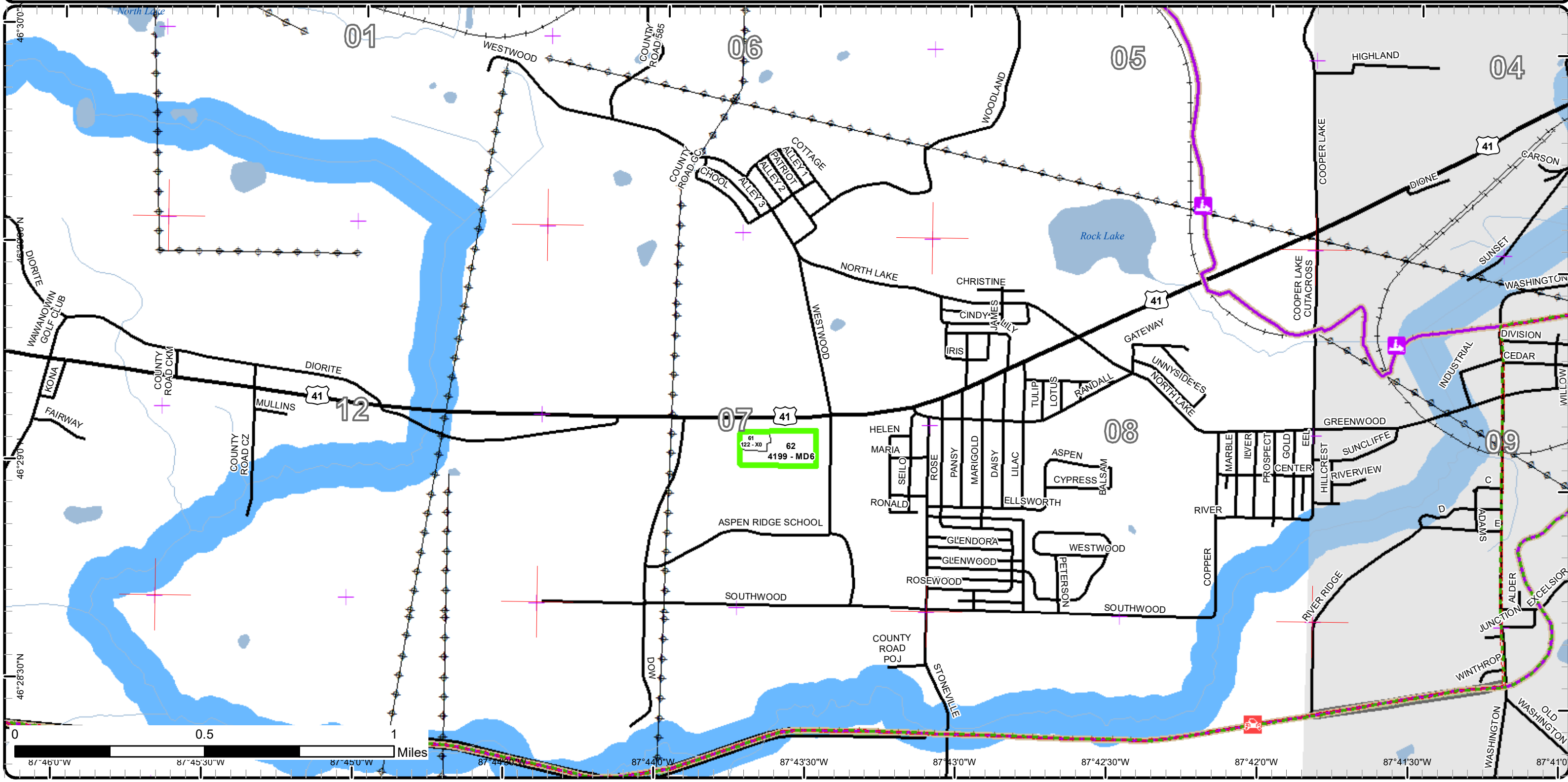


Special Conservation Areas

Compartment: 209
 T46N,R24W, Sec. 13, 23, 25, 31-34
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Peshekee Highlands
 YOE: 2023
 Acres: 1628.5 GIS Calculated
 Examiner: Jason Caron
 Map Revised: 8/13/2021
 Map Phase: Review



- Miris Corners
- Remonumented Section Corners
- Counties
- Federal / State Highway
- Federal / State / County - Paved Road
- Active Railroads
- 65" Restricted ORV Route
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Designated RailTrail
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Cities
- Compartment Boundary
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Rail-Trail Corridor





Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 209
Total Compartment Acres: 1,629

Commercial Harvest - 108
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
Aspen	33	0	0	0	0	0	0	0	0	33
Lowland Conifers	15	0	0	0	0	0	0	0	0	15
Northern Hardwood	12	48	0	0	0	0	0	0	0	60
Total	60	48	0	0	0	0	0	0	0	108

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	108	0	0	0	10	191	0	0	0	308
Next Step	0	0	10	103	0	138	0	0	0	250
Total	108	0	10	103	10	328	0	0	0	559



Stand Name	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:

12	32209012-Cut	12.1	4110 - Sugar Maple Association	Poletimber Well	115	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Clearcut with reserves. Do not harvest under-represented species such as yellow birch and oak. Red line out a patch of mature timber to meet retention guidelines.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Maple, spruce, pine, oak, hemlock, aspen, birch, cedar, and fir.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>											
14	32209014-Cut	14.8	6124 - Lowland Spruce-Fir	Poletimber Well	84	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Clearcut with reserves. Treatment boundary was adjusted to buffer the wetland to the south. Do not harvest under-represented species within the stand such as cedar and yellow birch.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Cedar, birch, aspen, fir, maple, spruce, pine, oak, and hemlock.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>											
17	32209017-Cut	9.1	4130 - Aspen	Poletimber Well	47	51-80	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription Specs:</u> Clearcut with reserves. Red line out a patch of mature timber to meet retention guidelines. Do not harvest under-represented species such as oak, pine, yellow birch - if they exist.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen, spruce, fir, pine, oak, birch, and maple.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>											
34	32209034-Cut	48.2	4110 - Sugar Maple Association	Sawtimber Well	99	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Selectively manage the stand to a residual basal area of 70-80 square feet. Do not harvest under-represented species within the stand such as oak, yellow birch, and white pine. Create canopy gaps where poor quality hardwood exists to encourage new regeneration.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Maple, birch, oak, hemlock, and cedar.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</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
36 32209036-Cut	5.7	4130 - Aspen	Sawtimber Well	81	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with no reserves. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, fir, spruce, pine, oak, hemlock, cedar, birch, and spruce. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
50 32209050-Monitor	102.8	6229 - Mixed lowland shrub	Nonstocked	2020	Unspecified	Monitoring	Natural Regen (Intermediate)	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	No
<p><u>Prescription</u> Monitor the stand for regeneration. <u>Specs:</u> <u>Next Step</u> Seeding, Machine Seed <u>Treatments:</u> <u>Acceptable</u> black spruce, tamarack, paper birch. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
52 32209052-Cut	17.9	4130 - Aspen	Poletimber Well	40	1-50	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Clearcut with reserves. The SE corner of the stand was removed from the treatment area as retention. This corner contained some aspen and pine. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, spruce, fir, pine, and maple. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										

Approved Treatments:

5 32209005-Spray	9.8	330 - Low-Density Trees	Nonstocked		Unspecified	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> spray per pap <u>Specs:</u> <u>Next Step</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Treatments:</u> <u>Acceptable</u> Red pine <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u></p>										



Standard

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 Start Date: 10/1 /2020

24	32209024-Monitor	10.1	310 - Herbaceous Openland	Nonstocked	2020	Unspecified	Monitoring	Natural Regen (Intermediate)	42330 - Upland Fir	Even-Aged	No
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Prescription Follow-up treatment with a regeneration survey as provided for in "Work Instruction 2.1 Reforestation".Specs: Refer to the most current Regeneration Survey Manual.

2021 Inventory - The stand was harvested in August of 2017 and is very poorly stocked. Perform a regen survey to see if this stand should be artificially regenerated.

Next Step Monitoring, Natural Regen (Intermediate)Treatments:Acceptable fir, spruce, birch, aspen, pine, oak, hemlock, cedar.Regen:OtherComment:Site Condition

Proposed Start Date: 10/1 /2021

31	32209031-Monitor	23.2	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Make sure regeneration stocking is per work instructions.Specs:Next StepTreatments:Acceptable aspen, spruce, fir, pine, oak, hemlock, birch, and cedar.Regen:Other Percent to Treat = 100%Comment:Site Condition

Proposed Start Date: 10/1 /2030

32	32209032-Monitor	54.7	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Make sure regeneration stocking is per work instructions.Specs:Next StepTreatments:Acceptable aspen, maple, fir, spruce, pine, birch, cedar, hemlock.Regen:Other Percent to Treat = 100%Comment:Site Condition

Proposed Start Date: 10/1 /2030

Total Treatment 308.4
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jason Caron : Examiner

Compartment: 209
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		4A	2G	3A	3J	5E
592	589	0	3	Aspen				1	2
45	40	0	5	Cedar				5	
19	19	0	0	Herbaceous Openland					
80	80	0	0	Low-Density Trees		0			
167	15	0	152	Lowland Conifers	0	103		48	2
10	10	0	0	Lowland Deciduous					
261	261	0	0	Lowland Shrub				0	
75	0	0	75	Lowland Spruce/Fir		18		57	
56	51	5	0	Mixed Upland Deciduous	5				
280	230	11	39	Northern Hardwood	11		39	0	
24	24	0	0	Upland Mixed Forest					
10	4	0	6	Upland Spruce/Fir				6	
10	10	0	0	Urban					
1,629	1,333	16	279	Total Forested Acres	16	121	39	117	3
	82%	1%	17%	Relative Percent					

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small wetland that has been excluded from the treatment (red lined out).							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments: SCA=>Riparian corridor along the Barnhardt Creek which is a cold water trout stream.							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jason Caron : Examiner

Compartment: 209
Year of Entry: 2023

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: SCA=>Riparian corridor along the Barnhardt Creek which is a cold water trout stream. Currently listed as SC-8.							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	37	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Numerous springs and seeps exist within the stand. Buffers would eliminate most of the treatment area.							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand was prescribed and set up during the last YOE but never sold. Spruce is very sparse and the ground is very wet. Rutting would be an issue within this stand due to the lack of tops for floatation.							
6	Unavailable	3A: Conservation Values incompatible with harvest at this time	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: MNFI conducted a survey of this stand in August of 2017 and identified natural communities.							
7	Unavailable	3A: Conservation Values incompatible with harvest at this time	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments: MNFI conducted a survey of this stand in August of 2017 and identified natural communities occurring within this stand.							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: SCA=>Potential Old Growth and Riparian Corridor. Stand is providing wildlife travel corridor and buffer along the Barnhardt Creek. It is succeeding from spruce-fir to red maple and fir.							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jason Caron : Examiner

Compartment: 209
Year of Entry: 2023

9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	103	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	4A: No Markets Available for these Forest Products	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	4A: No Markets Available for these Forest Products	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
This stand along with the adjacent stand (38) was set up during the last YOE and was advertised numerous times with no bids. Stand is 10 acres in size and consists of mostly hardwood pulp. With the current markets this stand would again go no bid due to it's location.							

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.

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
1	4319 - Mixed Upland Forest	Sapling Well	24.5	13	Immature	N/A	Harvested in 2006/2007, TS#103-03-01. Scattered large white pine scattered throughout the stand. Stand is fully stocked with a mix of red maple stump sprouts, fir, and aspen. Scattered mature white pine scattered throughout the stand. Fir is not in terrible shape yet but does have some budworm damage.																																																						
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2	4110 - Sugar Maple Association	Poletimber Well	14.1	82	51-80	N/A	Stand was harvested under contract TS# 108-13. Stand contains poorer quality sugar maple mixed with red maple and yellow birch. The advanced regeneration within the understory looks good.																																																						
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3	6120 - Lowland Cedar	Poletimber Well	11.1	66	51-80	N/A	Stand of pole sized cedar mixed with some smaller diameter black ash, spruce, and fir. Remnant large diameter cedar exists throughout the stand that were left during the last cut. No cutting history exists on this stand. Tall stumps exist throughout the cut. Cedar poles are nice quality.																																																						
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Black Ash	15	Sapling	2																																																										
4	6113 - Lowland Maple	Sapling Poor	9.9	8	Immature	N/A	Stand was cut under TS# 108-13. A seed tree harvest occurred. What remains is scattered yellow birch, pine, balsam and spruce. Stand is starting to regenerate back to patch red maple stump sprouts. I noticed some fir and paper birch seedlings are starting to become established. Stand will be fully stocked by the next YOE.																																																						
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5	330 - Low-Density Trees	Nonstocked	10.3		Unspecified	4211 - Planted Red Pine	Stand harvested by Roy Nelson in the fall of 2017. TS# 126-16, Moose Bones Sale SBW. C32-9239-2-2020 KM: 9.8 acres trenched by DNR in 2020.																																																						
6	4134 - Aspen, Spruce/Fir	Sapling Well	39.2	14	Immature	N/A	Stand harvested 2004-2005, TS#32-105-03-01 (seed tree cut, spruce-fir). Scattered black cherry and yellow birch, patches of spruce and fir. Some areas have patchy regen, mainly on west end of stand. Residual spruce-fir are in clumps.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
7	6220 - Alder/willow	Nonstocked	31.7		Unspecified	No	Some scattered trees throughout the stand, more as you approach the upland. Could also be low density trees.	
		Sub-Canopy Species		Density	Avg. Height	Size		
		Northern White Cedar		Trace		Pole		
		Black Spruce		Low		Pole		
		Balsam Fir		Low		Pole		
8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	3.8	130	81-110	N/A	Stand is small and somewhat of a drive to get into compared to surrounding stands. 2021 - Did not make it to this stand for this inventory cycle.	
		Canopy Species		% Cover	Size Class	DBH		Age
		Sugar Maple		74	Log/Pole	14		130
		Red Maple		15	Log/Pole	14		
		Yellow Birch		5	Log/XLog	16		
		Balsam Fir		2	Pole	6		
		White Spruce		2	Pole/Log	8		
		Black Cherry		2	Pole	6		
		Sub-Canopy Species		Density	Avg. Height	Size		
		Sugar Maple		Medium	5 - 10 feet	Sapling		
9	6120 - Lowland Cedar	Poletimber Medium	17.7	114	51-80	N/A	Spring creek runs through this stand. This area appears to have not been harvested, or at least not cut as hard, as the adjacent stand. Very little regeneration present in this stand and the overstory trees are of much larger diameter. Much of the fir is in poor condition due to the budworm outbreak and will likely die out in the next few years. Pockets of snow damaged trees exist within the stand where the trees were laid flat due to the heavy snow of 2020.	
		Canopy Species		% Cover	Size Class	DBH		Age
		Red Maple		2	Pole	8		
		Paper Birch		2	Log/Pole	10		
		Balsam Fir		15	Pole	6		
		Black Spruce		25	Pole	8		95
		Northern White Cedar		51	Log	10		115
		Tamarack		5	Pole/Log	8		
		Sub-Canopy Species		Density	Avg. Height	Size		
		Balsam Fir		Low	< 5 feet	Sapling		
		Black Spruce		Low	< 5 feet	Sapling		
		Tag Alder		Low	< 5 feet	Tall Shrub		
10	4110 - Sugar Maple Association	Sawtimber Well	12.8	110	51-80	N/A	Stand was thinned in August of 2017. TS# 113-13. No damage to residual timber. The basal area averages around 70-80 square feet.	
		Canopy Species		% Cover	Size Class	DBH		Age
		Sugar Maple		90	Log/Pole	12		111
		Red Maple		10	Log/Pole	10		
		Sub-Canopy Species		Density	Avg. Height	Size		
		Sugar Maple		Low	10 - 20 feet	Sapling		
		Balsam Fir		Low	< 5 feet	Sapling		
		Ironwood		Low	5 - 10 feet	Sapling		
11	4110 - Sugar Maple Association	Sawtimber Well	21.6	89	81-110	N/A	Stand was select cut in February 2013. Sale name: Out North timber sale 302-10-01. Decent quality timber within stand. Mostly sugar maple. Basal area averages 90-100 square feet. I noticed some maple regeneration starting within the understory.	
		Canopy Species		% Cover	Size Class	DBH		Age
		Sugar Maple		100	Log	10		90
		Sub-Canopy Species		Density	Avg. Height	Size		
		Sugar Maple		Low	Variable	Sapling		
12	4110 - Sugar Maple Association	Poletimber Well	12.1	115	81-110	N/A	Stand harvested in 2005, TS#32-104-03-01 (Spruce Up North Sale). Medium- poor quality stand as a whole, north part is o.k. Edge of stand is loaded with white spruce and balsam fir.	
		Canopy Species		% Cover	Size Class	DBH		Age
		Sugar Maple		91	Pole/Log	10		115
		Red Maple		5	Pole/Log	8		
		Paper Birch		2	Log	14		
		White Spruce		2	Log/Pole	12		
		Sub-Canopy Species		Density	Avg. Height	Size		
		Sugar Maple		Low	5 - 10 feet	Sapling		
		Balsam Fir		Medium	10 - 20 feet	Sapling		
		Ironwood		Low	5 - 10 feet	Sapling		



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13	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	10.4	15	Immature	N/A	Stand harvested in 2005, TS#32-104-03-01 (seed tree cut with spruce-fir retained). Stand has filled in with a mix of species and is now fully stocked. Fir is in poor condition due to the spruce budworm outbreak.																																																																								
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14	6124 - Lowland Spruce-Fir	Poletimber Well	24.5	84	81-110	N/A	Stand contains a mix of paper birch, aspen, black spruce, and cedar. Wet areas exist within the stand. Most of the white spruce and fir have fallen out of the stand due to either age or budworm.																																																																								
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15	4130 - Aspen	Poletimber Well	62.6	24	51-80	N/A	Stand was harvested in the summer of 1995 by Ken Lanaville, permit #12-93 (Dead River Basin Sale). Red and white pine, cedar, cherry and oak were left. 2020 Inventory - Stand is a mix of mostly deciduous species. Fir is near dead due to the budworm outbreak. Mature oak scattered within the stand.																																																																								
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16	6124 - Lowland Spruce-Fir	Poletimber Well	36.7	95	51-80	N/A	Stand is mixed and variable throughout. Cedar is somewhat absent in the middle of the stand, but present on both ends of the stand. Cedar regen is prevalent on the western side of the stand but is replaced by black spruce on the east. Looking at the old aerial photo's it appears this area was harvested pre-1954. Clumps and individual trees were left at that time.																																																																								
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17	4130 - Aspen	Poletimber Well	9.1	47	51-80	N/A	It appears that this stand was treated in the 1970's when the adjacent upland hardwood stands were treated. No records exist for this stand. Stand is mature and can be prescribed for harvesting. Ground slopes to the south. Seeps exist within the stand.																																																																								
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19	42340 - Upland Spruce/Fir	Sawtimber Well	9.8	115	81-110	N/A	This stand is beginning to succeed to red maple. Where gaps are present (primarily the west end) red maple saplings are recruiting into those gaps. The spruce and fir are in poor condition due to the ongoing budworm outbreak. I am assuming in the next 5 years most of the white spruce and fir will fall out of the stand. With the proximity of this stand being close to the creek, only a portion of it will be treatable.																																																					
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20	4110 - Sugar Maple Association	Sawtimber Well	19.9	130	111-140	N/A	Large sugar maple and yellow birch trees are beginning to die and become large downed woody debris and snags. Timber quality in the overstory logs is very poor. Poles in the canopy and mid-canopy do exhibit some quality.																																																					
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21	4139 - Aspen, Mixed Deciduous	Sapling Well	64.8	15	Immature	N/A	Harvested in 2004-2005, TS#32-104-03-01, (seed tree cut with spruce retained). The majority of this stand has regenerated to aspen with a spruce-fir component. Trace species of cedar, yellow birch, black cherry and white pine are in the super-canopy. The extreme south end of the stand (about 2-3 acres) has only cherry regenerating and some red maple.																																																					
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22	4134 - Aspen, Spruce/Fir	Sapling Medium	7.9	7	Immature	N/A	Stand was cut in the winter of 2013. Sale name: Out North timber sale, 302-10. Stand has regenerated back to a mix of species.																																																					
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23	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	3.9	15	Immature	N/A	Stand was harvested 2004-2005, TS#32-104-03-01 (Spruce Up North Sale). This stand is essentially on a hill side. It is a mix of red maple, quaking aspen, and blasam fir.																																																					
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24	310 - Herbaceous Openland	Nonstocked	10.5	2020	Unspecified	4319 - Mixed Upland Forest	Stand was harvested in August of 2017. TS# 113-13. Stand is slow to regenerate. TMS should conduct an assessment to see if the stand should be regenerated artificially.																																											
25	122 - Road/Parking Lot	Nonstocked	6.9		Unspecified	No	County Road.																																											
26	123 - Other High Intensity Urban	Nonstocked	1.1		Unspecified	No	Gravel pit.																																											
27	4110 - Sugar Maple Association	Sawtimber Well	18.8	130	81-110	N/A	Large sugar maple and yellow birch trees are beginning to die and become large downed woody debris and snags. Timber quality in the overstory logs is very poor. Poles in the canopy and mid-canopy do exhibit some quality.																																											
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28	4134 - Aspen, Spruce/Fir	Sapling Medium	16.0	26	Immature	N/A	Stand was harvested in summer 1993 by Ken Lanaville, permit #12-93 (Dead River Basin Sale). Stand has some sparse stocking areas. Spruce and fir are mainly in patches and in poor condition due to the budworm outbreak.																																											
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29	310 - Herbaceous Openland	Nonstocked	8.2	0	Unspecified	4319 - Mixed Upland Forest	Stand was harvested in the winter of 2020. Sale # 127-16. Some patches of mature cedar exist within the cut as they were left for retention. Stand was mostly fir and may take awhile to regenerate.																																											
30	4110 - Sugar Maple Association	Sawtimber Well	36.1	100	81-110	N/A	Stand was selectively thinned in the winter of 2017. Sale # 109-13. Timber is poorer quality due to soil type.																																											
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31	330 - Low-Density Trees	Nonstocked	23.2	0	Unspecified	4319 - Mixed Upland Forest	Stand was harvested in the winter of 2019. Sale # 109-13. Some stump sprout red maple has started to regenerate. Scattered mature white pine and yellow birch exist within the stand as they were no cut species. A drainage exists within this stand as it was omitted from the sale area during harvest.																																											
32	330 - Low-Density Trees	Nonstocked	44.7	0	Unspecified	4319 - Mixed Upland Forest	Stand was harvested in the winter of 2019. Sale # 109-13. Some stump sprout red maple has started to regenerate. Scattered mature white pine and yellow birch exist within the stand as they were no cut species.																																											



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33	4134 - Aspen, Spruce/Fir	Poletimber Well	38.9	36	51-80	N/A	Stand harvested in 1983, permit #9-82-2. Stand contains a mix of aspen, fir, red maple and a few pole sized oak. Scattered legacy tree sized white pine exist within the stand. Fir will soon die and fall out of the stand due to the budworm outbreak.																																														
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34	4110 - Sugar Maple Association	Sawtimber Well	48.3	99	81-110	N/A	Stand of decent quality hardwood. Basal area averages 100 - 120 square feet. No advanced regeneration within the understory. A carpet of sugar maple seedlings, but very few saplings.																																														
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35	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	27.1	7	Immature	N/A	Stand was cut in the winter of 2014. Sale name: Out North timber sale 302-10. Residual white pine and cherry left scattered throughout the stand. 2020- Stand is regenerating nicely and will be fully stocked by the next inventory cycle. A mix of aspen, cherry, and red maple exist.																																														
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36	4130 - Aspen	Sawtimber Well	5.7	81	111-140	N/A	An island of aspen surrounded by hardwood. Aspen is old and needs to be managed.																																														
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37	6122 - Black Spruce	Poletimber Well	33.5	103	111-140	N/A	Stand acts as a riparian corridor to the Barnhardt Creek. Heavy to black spruce on west and central part of the stand, more cedar as you head east. Tamarack is along the stand edge. Found some Canadian Yew within the central part of the stand.																																														
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38	6122 - Black Spruce	Poletimber Medium	27.8	82	111-140	N/A	Mixed stand of black spruce and white birch, with some blasam and scattered cedar. Cedar is mainly along the north edge. Cedar stumps are present within the stand and immediately to the north in the lowland brush. This stand appears to have been clearcut, along with the adjacent hardwood, somewhere right before 1939 as photo interpretation shows. This was the last time that this stand was harvested.																																														
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39	4110 - Sugar Maple Association	Sawtimber Well	10.5	91	111-140	N/A	Poor quality upland hardwood. Black cherry present throughout the stand, heaviest at south end. White birch is present within the stand, heaviest at south end and along the edge as stand transitions into spruce swamp; the edge is where the aspen and balsam are present as well. A few x-large remnant trees are present in the stand (sugar maple and yellow birch). Heavy moose sign in this stand while I was there (2/11/2011). Very difficult to access this stand. Age estimate is based on the cutting in 1939 photo's. The increment borer would not penetrate the trees on this day. White birch, aspen, and cherry are in decline due to age. Balsam is in tough shape due to budworm.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		83	Log	14	90	Sugar Maple		Medium	< 5 feet	Sapling	
Paper Birch		4	Log/Pole	10		Balsam Fir		Low	< 5 feet	Sapling	
Quaking Aspen		3	Log	10							
Black Cherry		10	Log/Pole	10							
40	4110 - Sugar Maple Association	Poletimber Well	10.1	99	51-80	N/A	Stand was harvested during the fall of 1997, permit #15-93 by Jim Carey Logging (Barnhardt Creek North Sale). Basal area is still very low and the quality of the stand is not poor enough to support a shelterwood harvest.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		98	Log/Pole	10	99	Sugar Maple		Medium	5 - 10 feet	Sapling	
Paper Birch		2	Pole	8		Balsam Fir		High	5 - 10 feet	Sapling	
						Ironwood		Medium	5 - 10 feet	Sapling	
41	4134 - Aspen, Spruce/Fir	Sapling Medium	17.9	22	Unspecified	N/A	Stand was harvested during the fall of 1997, permit #15-93 by Jim Carey Logging (Barnhardt Creek North Sale). Cedar was left. Some scattered red and white pine. 2021 - Stand has taken some abuse due to the heavy snows of last winter. Also, budworm is currently within the stand and will kill most of the spruce/fir eventually.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		10	Sapling	3		Balsam Fir		Medium	< 5 feet	Sapling	
Quaking Aspen		50	Sapling	3	22	White Spruce		Low	< 5 feet	Sapling	
Balsam Fir		20	Sapling/Pole	4		Black Spruce		Low	< 5 feet	Sapling	
White Spruce		10	Sapling	3		Tag Alder		Low	< 5 feet	Tall Shrub	
Black Spruce		5	Sapling	3		Wild Red Raspberry		Medium	< 5 feet	Tall Shrub	
Northern White Cedar		5	Pole	8							
42	6229 - Mixed lowland shrub	Nonstocked	75.6		Unspecified	No					
43	6120 - Lowland Cedar	Poletimber Well	15.9	76	111-140	N/A	Just about a pure cedar stand of very dense pole sized cedar. No cutting history for this stand on record, but stumps are present in the stand and photo interpretation shows that this stand was cut before 1939. Some Canadian Yew within the understory which is both unique and rare.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		2	Pole	6		Tag Alder		Low	< 5 feet	Tall Shrub	
Black Spruce		3	Pole	6		Northern White Cedar		Medium	< 5 feet	Sapling	
Northern White Cedar		95	Pole	7	76	Canadian Yew		Low	5 - 10 feet	Tall Shrub	
44	6229 - Mixed lowland shrub	Nonstocked	8.0		Unspecified	No					
45	6124 - Lowland Spruce-Fir	Poletimber Well	3.3	91	81-110	N/A	This stand is the 'edge' of a larger stand to the east on private property. It is a slice of upland spruce/fir with some cedar on the edge of the stand. This stand is very difficult for us to access in terms of harvesting. If the adjacent landowner to the east harvests in the near future we should try to do a negotiated sale with them.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		2	Pole	6		Balsam Fir		Low	< 5 feet	Sapling	
White Spruce		48	Pole/Log	10		Black Spruce		Low	< 5 feet	Sapling	
Black Spruce		48	Pole	6	91						
Northern White Cedar		2	Log/Pole	12							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
46	6122 - Black Spruce	Poletimber Medium	13.7	91	51-80	N/A	Stand is small and is just within State ownership. It is part of a riparian corridor along the Barnhardt Creek.																																																			
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47	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	5.5	45	1-50	N/A	Stand was once a combination of spruce, fir, and deciduous. Fir and spruce have fallen out of the stand due to both age and budworm. Stand is slowly converting over to mostly red maple. A considerable amount of CWD currently on the ground as most of the spruce and fir have fallen down.																																																			
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48	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	102.5	88	81-110	N/A	Mixed stand of spruce, cedar and white birch. Some black ash is present as well on the west end of the stand. Stumps are present within the stand and photo interpretation shows a harvest sometime shortly before 1939. Cedar regen is present throughout the stand, heaviest in the west - some of the regeneration is via layering. Canopy varies throughout the stand with some larger gaps existing. Cedar is poorer quality.																																																			
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49	6220 - Alder/willow	Nonstocked	13.0		Unspecified	No																																																				
50	6229 - Mixed lowland shrub	Nonstocked	102.8	2020	Unspecified	6117 - Lowland Deciduous, Mixed Coniferous	Stand was cut in the winter of 2018. Atomic Acorn: TS# 103-14. Stand is starting to show signs of regeneration of tamarack and black spruce. Most of which is only an average of 6" tall. I would guess that the edges will fill in first with the proximity to a seed source.																																																			
51	4134 - Aspen, Spruce/Fir	Poletimber Well	48.1	31	Immature	N/A	Mixed aspen/fir stand with some areas of pole size trees. Red maple and sugar maple are regenerating in this stand as well. Mainly as seedlings (3-5 feet), but some saplings are present. Stand is just starting to get into the pole size class. Fir and spruce are in poor condition due to the budworm outbreak. I'm guess there will be little to no spruce/fir within the stand during the next YOY due to mortality.																																																			
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52	4130 - Aspen	Poletimber Well	19.8	40	1-50	N/A	Stand harvested in January of 1980 by Dave Holli, permit #13-79. Canopy is nearly all aspen with some balsam present. Balsam compose the majority of the understory.																																																				
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53	4112 - Maple, Beech, Cherry Association	Poletimber Well	54.4	70	81-110	N/A	Mediocre northern hardwoods, some potential. A mix of poles and logs. Scattered balsam in the understory. Regeneration is present in this stand.																																																				
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55	4130 - Aspen	Sapling Well	34.6	6	Immature	N/A	Stand was cut in the fall of 2015. Atomic Acorn. TS# 103-14. Stand has regenerated back to a mix of aspen, red maple, and cherry. Some portions of the stand have been slower to regenerate while others are fully stocked with aspen.																																																				
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56	4134 - Aspen, Spruce/Fir	Poletimber Medium	25.6	43	51-80	N/A	Stand was harvested in 1982 under permis 9-81A and 10-81A. This area was sold as a firewood sale. The northwest part of the stand is almost entirely red and sugar maple saplings that may need to be split out in future stand exams. The '0' in the basal area column is a true '0' as the point fell in this area of maple. There are a couple of mature white pine in the stand as well. Stand has an overall small diameter given it's age.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
57	4134 - Aspen, Spruce/Fir	Sapling Well	42.0	32	Immature	N/A	Mostly aspen and balsam. Some scattered red and white pine saplings where stand is more open.																																						
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58	4134 - Aspen, Spruce/Fir	Sapling Medium	104.4	23	Immature	N/A	Jack pine regen seems to be in pockets and not scattered throughout the entire stand, it's more focused in the west and center of the stand. There is some black cherry and white birch present as well. The majority of the red and white pine is in the southwest portion of the stand. I noticed much of the pine regeneration is along the overgrown roads within the stand. Fir is in poor condition due to the budworm outbreak.																																						
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59	4110 - Sugar Maple Association	Poletimber Well	5.5	105	51-80	N/A	Stand was thinned in the fall of 2015. Atomic Acorn. TS# 103-14. All of the oak in the stand was kept and thinned a chain out from the canopy to try and promote more oak regeneration. 2021 Inventory - Stand is healthy and some maple regeneration is promoting within the understory. Some 2-3' oak does exist around the existing mature oak which is promising.																																						
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60	4130 - Aspen	Sapling Well	34.2	4	Immature	N/A	This stand was part of a land swap with Minerick Logging in 2019. Stand was harvested in 2016. Aspen is fully stocked and good quality. A few mature white pine are scattered throughout the stand.																																						
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61	122 - Road/Parking Lot	Nonstocked	2.4		Unspecified	No	Ishpeming office.																																						
62	4199 - Other Mixed Upland Deciduous	Poletimber Well	9.3	66	81-110	N/A	Stand that surrounds the Ishpeming Field office. Stand is mature.																																						
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64	4119 - Mixed Northern Hardwoods	Sapling Well	11.7	15	Immature	N/A	<p>Stand was cut around 15+ years ago. Stand consists of a seed tree cut. Large diameter maple and yellow birch scattered throughout the stand. A mix of deciduous and coniferous species regenerating as a result of the harvest.</p> <p>Some heavy patches of both raspberry and blackberry exist within the stand.</p>																																																											
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66	4134 - Aspen, Spruce/Fir	Sapling Well	7.1	14	Immature	N/A	<p>Stand harvested 2004-2005, TS#32-105-03-01 (seed tree cut, spruce-fir). Scattered black cherry and yellow birch, patches of spruce and fir. Some areas have patchy regen, mainly on west end of stand. Residual spruce-fir are in clumps.</p>																																																											
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67	330 - Low-Density Trees	Nonstocked	1.7	0	Unspecified	No	<p>Lowland drainage that was omitted from the nearby sale. An ash swale exists within the SE portion of the stand. Drainage makes it's way north out the the Dead River Basin.</p>																																																											