



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32032

Entry Year 2024

Acreage: 2,198

County Marquette

Management Area: Palmer Moraine

Stand Examiner: Eric Brolin

Legal Description:

T45N-R26W, Sections 1, 2, 3, 13, 14, 15, 16, 21, and 22

Identified Planning Goals:

Planning will focus on timber management, fisheries management and wildlife habitat management. Public access, forest roads, forest regeneration, forest health, forest fire management, forest recreation, stream crossings, water quality and any resource damage are critical assessments considered during the forest mapping and inventory process. Overall management strives to provide for a diverse, healthy and productive forest through planning and implementation of sustainable, proper forest treatments.

Soil and topography:

Terrain ranges from lowland drainages supporting tag alder to tall rocky cliffs and highlands with oak, pine and aspen. Major soils series are: Michigamme - Rock outcrop, Rubicon - Ishpeming - Rock outcrop, Rubicon - Sayner Complex, Rubicon - Ocqueoc - Rock outcrop, Sundog - Rock Outcrop Complex, Pence Fine Sandy Loam, Rubicon - Keweenaw Complex, Dishno - Michigamme - Rock outcrop, Greenwood and Dawson, Carbondale and Tawas, Croswell Sand, Sundog Silt Loam, Karlin Sandy Loam, and Gogebic - Dishno Cobbly Silt.

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

This compartment is comprised of 4 separate blocks of consolidated state ownership. The two northern blocks are bordered by small private parcels on the north, west and east sides and by Upper Peninsula Power Company (UPPCO) lands on the south. The southwest block is bordered by state land to the west and south, and small private parcels to the north and east. The southeast block is bordered by UPPCO and small private parcels to the north, state lands to the east and southwest and small private parcels to east. Most private parcels have a camp or residence present. The UPPCO lands are adjacent to the Cataract Impoundment and Middle Branch of the Escanaba River. This land is open to the public for access of areas along the river. Most private parcels are forested and are often used for hunting purposes.

Unique Natural Features:

Green Creek, Middle Branch of Escanaba River and Mud Lake are found within the compartment. The Cataract Basin lies between the 4 blocks of state ownership comprising this compartment. There is a record of an old great blue heron rookery along Green Creek on boundary of sections 1 and 2. There is potential for goshawk and red-shouldered hawk. Potential exists for wood turtles along Green Creek.

Archeological, Historical, and Cultural Features:

None contained in HAL database.

Special Management Designations or Considerations:

Riparian zones along the Middle Branch of the Escanaba River and Green Creek are designated.

Watershed and Fisheries Considerations:

This compartment consists of four regions including a Northwest, Northeast, Southwest, and Southeast region.

The Northwest region of this compartment includes the Middle Branch Escanaba River. The Middle Branch Escanaba River is a designated Type 1 trout stream greater than 50' width with a predicted mean July temperature of 66.4 °F (cool stream). 100' plus 5' per 1% increase in slope; buffers are recommended for the Middle Branch Escanaba River to protect these areas in accordance with Best Management Practices.

The Northeast region of this compartment includes Green Creek, and several unnamed streams that all serve as tributaries to the Middle Branch Escanaba River, downstream of the Cataract Hydropower Dam. Green Creek and the unnamed streams are all designated Type 1 trout streams less than 50' width with predicted mean July temperatures that range from 63.0 to 64.0 °F (cold streams).

The Southwest and Southeast regions of this compartment border Mud Lake. 100' buffers are recommended for Mud Lake to protect shoreline resources in accordance with Best Management Practices and the Michigan Wildlife Action Plan.

Wildlife Habitat Considerations:

Compartment 032 is found within the Palmer Moraine Management Area, on a Bedrock-Controlled Ground Moraine in central Marquette County. The dominant Natural Communities is boreal forests, mesic northern forests, and dry mesic northern forests. Major forest cover types include Aspen, White Pine, and Jack Pine. Wildlife priorities in this management area include maintaining white pine, red pine, and oak especially on rocky outcrops and maintaining wildlife movement corridors along riparian areas. Some of the most significant wildlife management issues in the management area are: early successional forest conditions (associated with alder, riparian zones, or forested wetlands), mast (hard and soft); mature forest (coniferous and deciduous stands); retention or development of large living and dead standing trees (for cavities), and mesic conifer.

The following have been identified as features species for the Palmer Moraine Management Area: American woodcock, black bear, pileated woodpecker, and red crossbill.

Mineral Resource and Development Concerns and/or Restrictions

Compartment 32 Sections 1-3 & 13-16, T45N-R26W, Marquette County

No known potential exists for commercial oil & gas production in this part of the state. The closest active sand/gravel pit is less than one mile to the east. There may be some potential for sand and gravel within the compartment on the uplands, but bedrock is at or near the surface in the compartment in places. Former iron mines occur less than one mile to the east/southeast, but iron formations are not believed to occur beneath the compartment, and there is no known potential for other metallic minerals. There has been no recent State mineral leasing activity in the area. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

M-35, County Road 557, Crooked Lake Road, Cataract Road, and Kacey Lane are the primary access roads for this compartment. The northeast block of state land has a good DNR forest road network to the east of the Escanaba River. The northeast block of state land has fairly good DNR forest road network to the east side, but none to the west. A portable bridge would be needed to access west of the Escanaba River. There is currently one private bridge to this area that will not support more than a standard pickup truck. The southwest block of state land has some DNR forest roads, but the southeast corner is blocked by a private gate. The southeast block has a good DNR road network to the north and southeast, but the west portion is isolated by private parcels making any access questionable.

Survey Needs:

There are survey needs for multiple treatments across the Compartment.

Recreational Facilities and Opportunities:

There are not any designated recreational facilities within this compartment. Hunting, fishing, trapping, canoeing, berry picking and off-road vehicle operation are important uses of this area.

Fire Protection:

Moderate to high wildland fire potential in certain areas due to young pine cover types and limited access. Numerous dispersed residences also pose special concern.

Additional Compartment Information:

The following reports from the Inventory are attached:

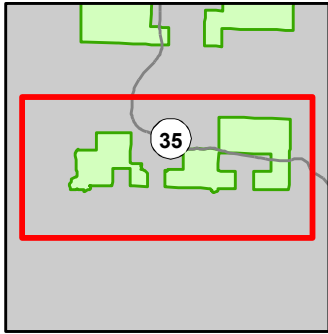
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

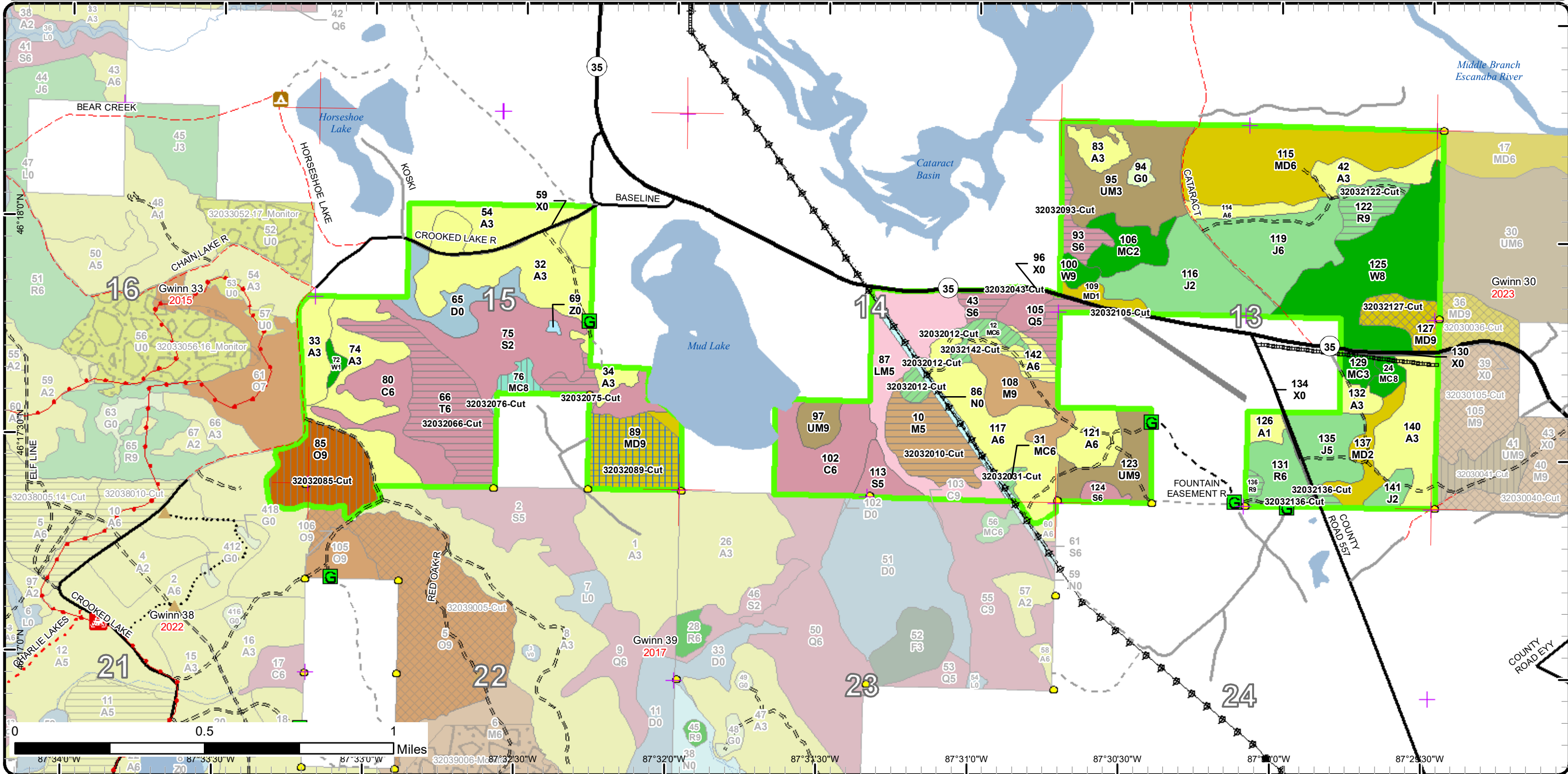
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 32
 T46N,R25W, Sec. 01-03, 13-15
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Palmer Moraine
 YOE: 2024
 Acres: 2197.8 GIS Calculated
 Examiner: Eric Brolin
 Map Revised: 8/4/2022
 Map Phase: Web-Post

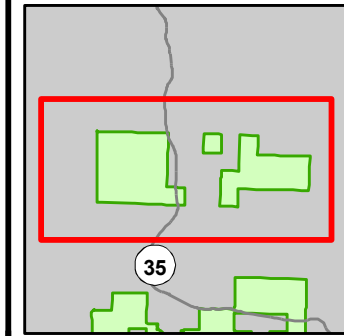


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- == DNR - Forest Access Route
- == Federal / State Highway
- == Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- Private - Paved Road
- - - Private - Dirt / Gravel Road
- ... DNR - Management Access
- 🏍️ Motorcycle Trails (DNR License)
- ORV License & Trail Permit
- ▲ Berms
- Ⓜ Gate
- ▲ Campground
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- ✈ Airports
- 🟩 Compartment Boundary
- ⊠ Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot

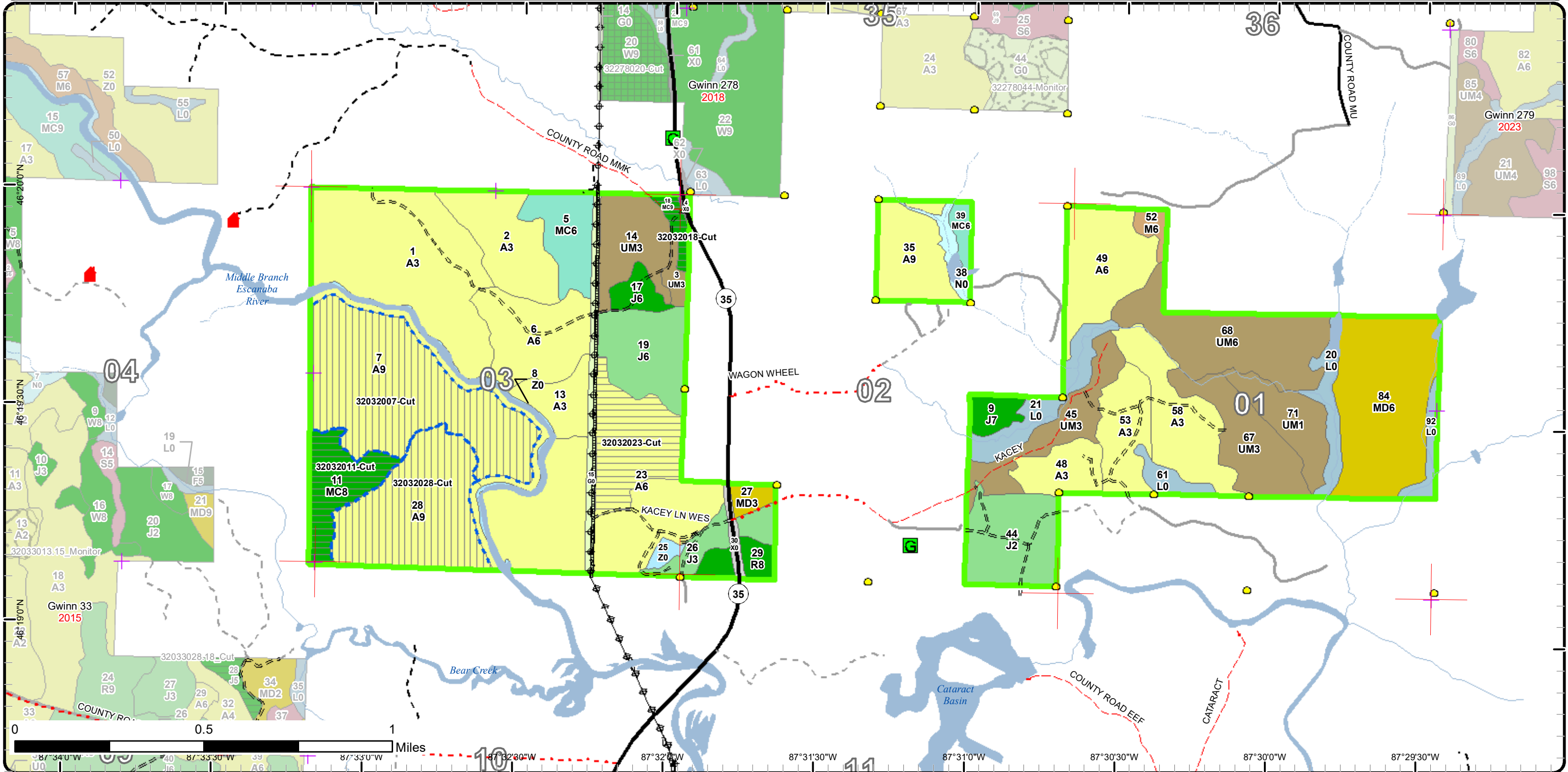


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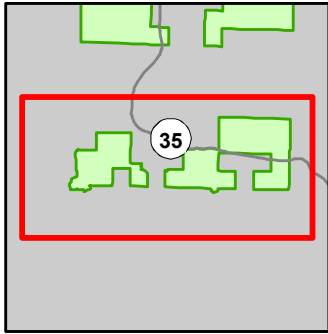


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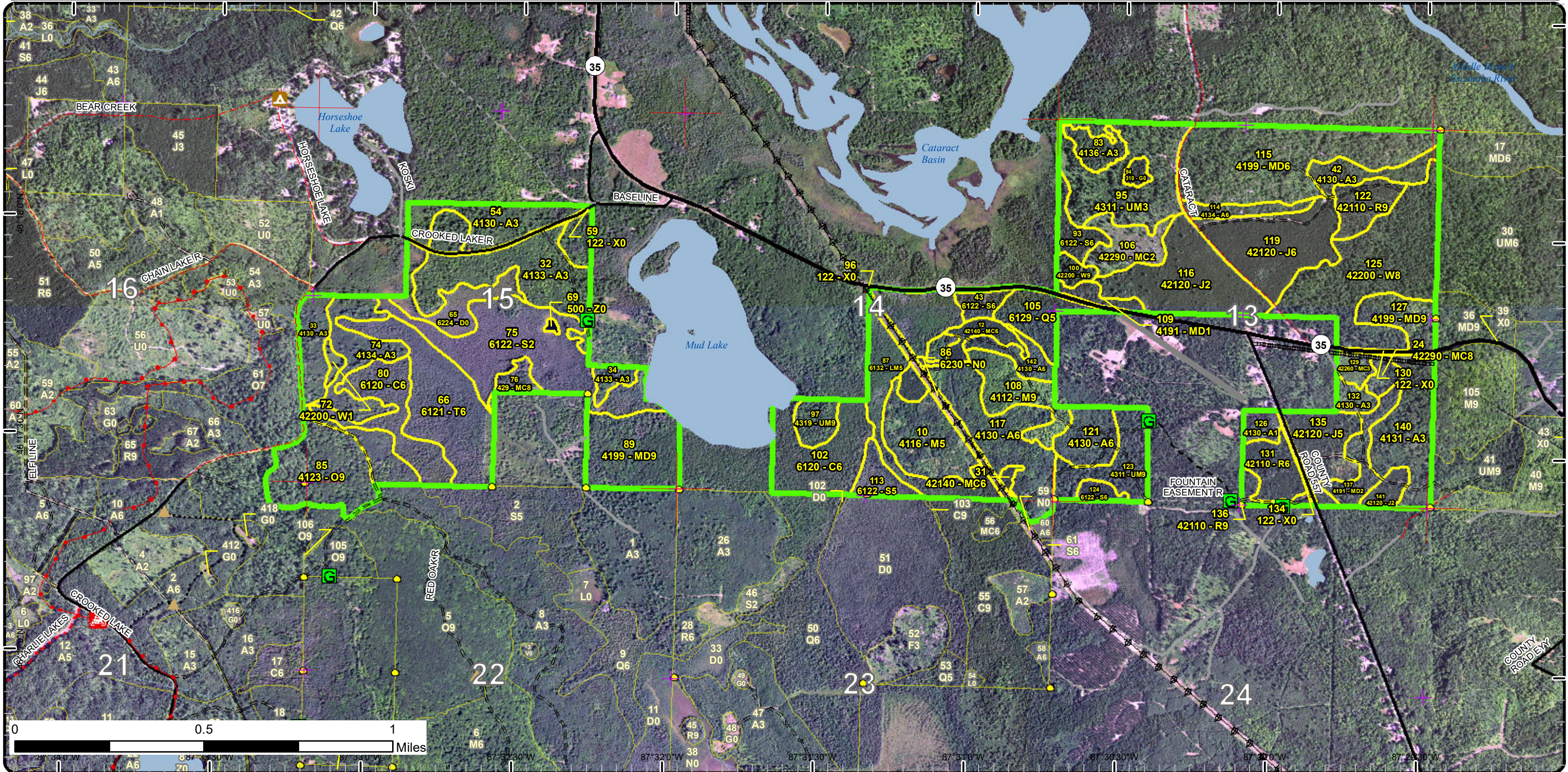


Stand Boundary Map

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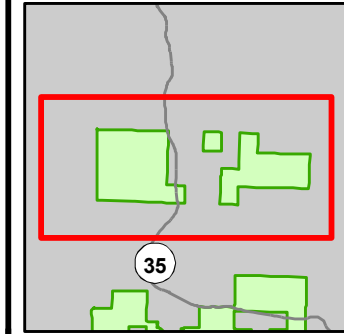


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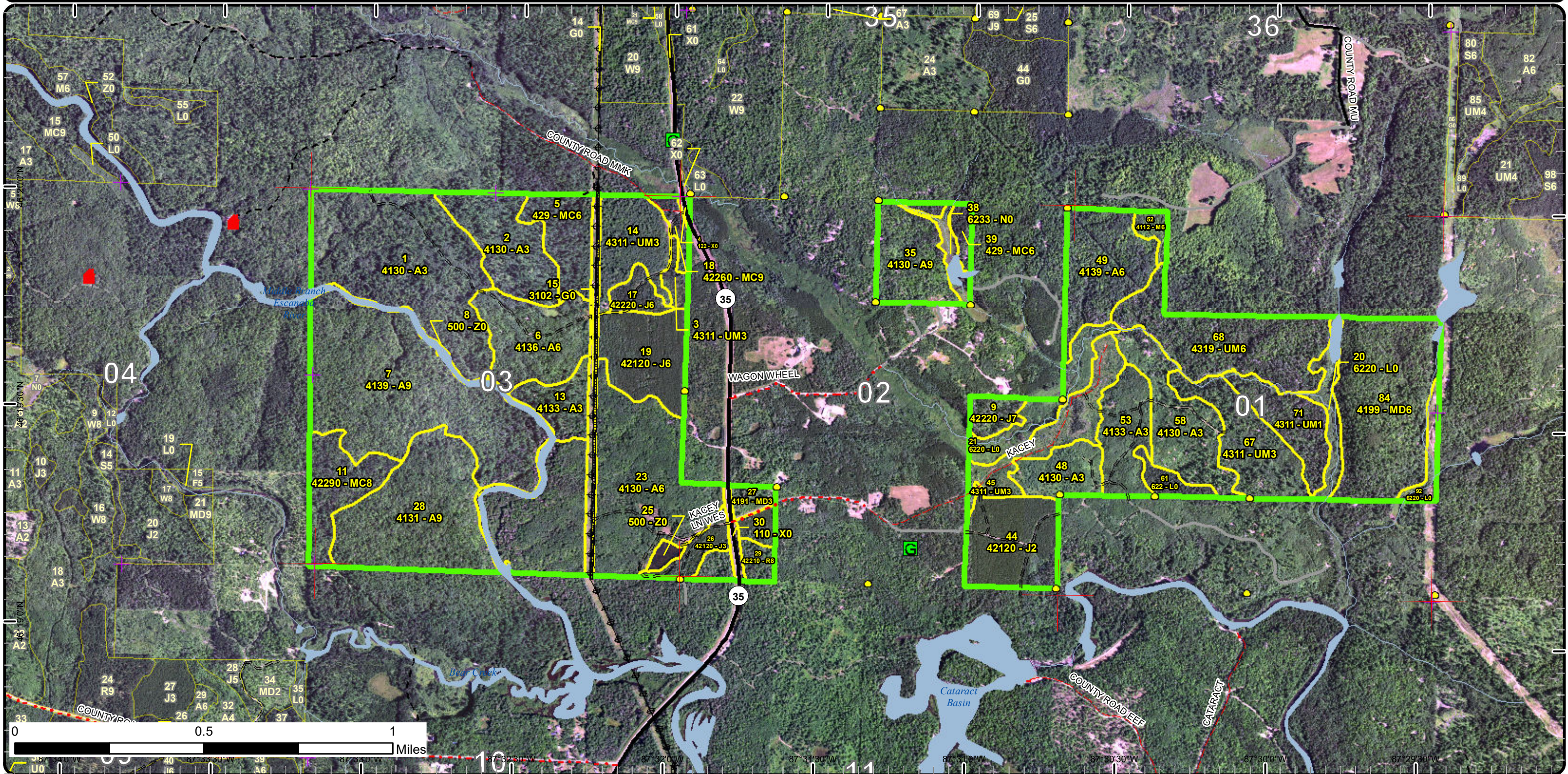


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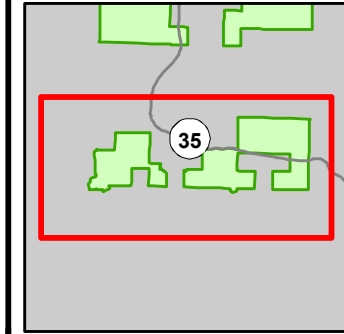


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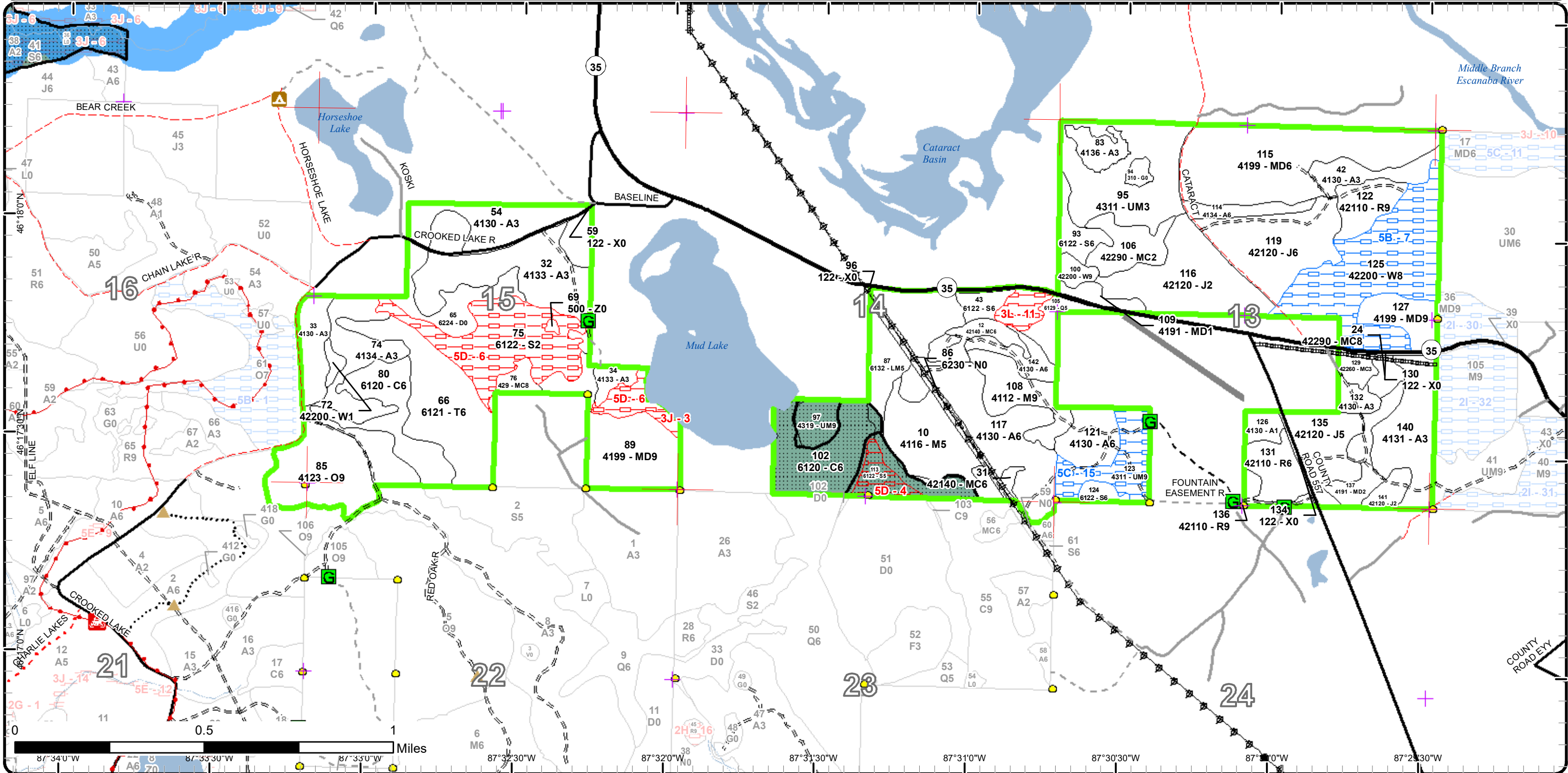


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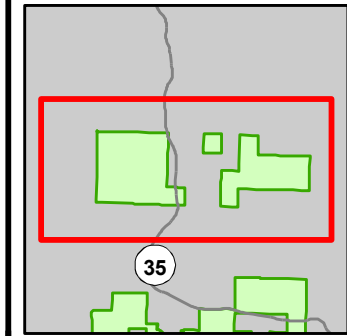


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- Pipeline
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- Airports
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5D: Unproductive Forest Land
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Vernal Pool

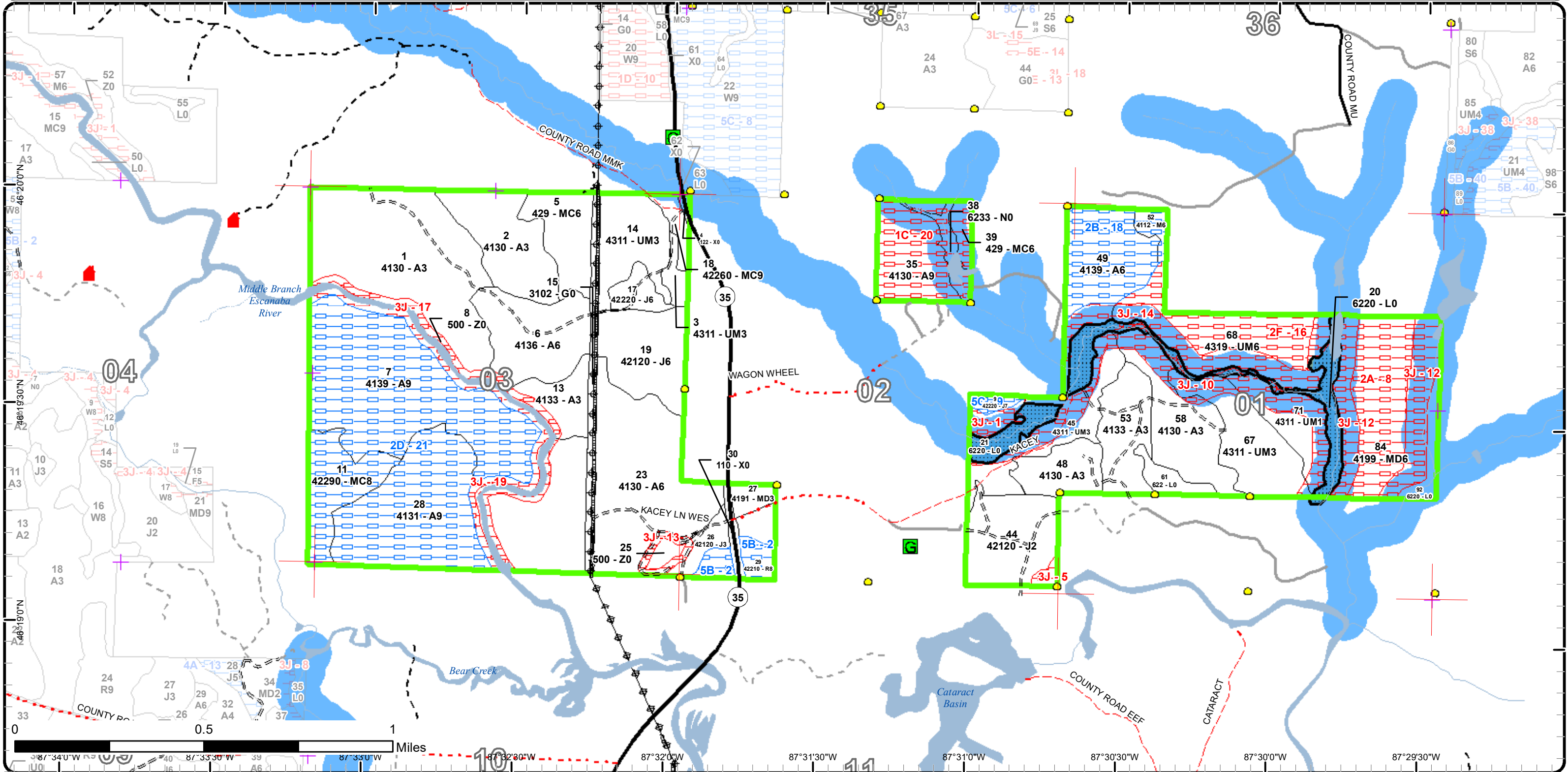


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- Powerline
- 🟩 Compartment Boundary
- 🟦 Available w/ Constraints
- 2D: Portable Bridge Needed (Dept. bridge will be adequate)
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 🟨 Unavailable
- 1C: Other dept or div proc/practices
- 2A: Adjacent landowner denied access
- 2F: Too steep
- 3J: Water quality / BMPs (stream, river, or lake)
- 🟩 Stand Boundaries
- 🟦 SCA
- 🟦 Cold Water Streams
- 🟦 Cold Water Lakes
- 🟦 High Priority Trout Stream Buffer
- 🟩 Vernal Pool



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	13	193	205	86	141	0	0	0	255	0	0	0	0	0	0	0	0	893
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	56	0	0	0	0	0	56
Herbaceous Openland	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Jack Pine	0	0	0	116	79	0	0	0	0	0	8	0	0	0	0	0	0	0	202
Lowland Conifers	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	14
Lowland Mixed Forest	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0	40
Lowland Shrub	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Lowland Spruce/Fir	0	0	0	0	0	0	0	4	13	0	8	57	0	0	0	0	0	0	81
Marsh	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Mixed Upland Deciduous	0	17	70	0	0	0	0	0	0	0	87	32	0	0	0	0	0	0	206
Natural Mixed Pines	0	0	20	0	0	0	0	0	0	27	11	0	0	0	0	0	0	0	57
Northern Hardwood	0	0	0	0	27	0	0	0	5	19	0	0	0	0	0	0	0	0	51
Oak	0	0	0	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	33
Planted Mixed Pines	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Red Pine	0	0	0	13	0	0	0	0	0	6	12	10	0	0	0	0	0	0	41
Tamarack	0	0	0	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	44
Treed Bog	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Upland Conifers	0	0	0	0	0	0	0	0	0	5	22	0	0	5	0	0	0	0	32
Upland Mixed Forest	0	23	70	65	0	0	0	0	0	56	0	8	0	20	0	0	0	0	241
Urban	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Water	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
White Pine	0	0	2	0	0	0	0	0	0	0	4	0	63	0	0	0	0	0	69
Total	124	53	355	399	205	141	0	0	49	396	188	91	176	25	0	0	0	0	2194



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 32
Total Compartment Acres: 2,198

Commercial Harvest - 262
Harvests with Site Condition - 196
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	47	0	0	0	170	0	0	0	0	217
Lowland Conifers	8	0	0	0	0	0	0	0	0	8
Lowland Spruce/Fir	19	0	0	0	0	0	0	0	0	19
Mixed Upland Deciduous	0	13	0	30	0	0	0	0	0	43
Natural Mixed Pines	32	0	0	0	0	0	0	0	0	32
Northern Hardwood	27	0	0	0	0	0	0	0	0	27
Oak	0	0	0	0	33	0	0	0	0	33
Planted Mixed Pines	0	0	0	0	0	13	0	0	0	13
Red Pine	18	0	0	0	0	0	0	0	0	18
Tamarack	44	0	0	0	0	0	0	0	0	44
Upland Conifers	0	0	0	0	5	0	0	0	0	5
Total	195	13	0	30	207	13	0	0	0	458

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	458	0	0	0	0	0	0	0	0	458
Next Step	0	90	90	13	0	90	536	0	0	820
Total	458	90	90	13	0	90	536	0	0	1278



Stand	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:

7	32032007-Cut	102.0	4139 - Aspen, Mixed Deciduous	Sawtimber Well	80	111-140	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Harvest all merchantable trees to promote regeneration and release oak canopies for growth. Leave cedar, hemlock, pine, and oak. May</p> <p><u>Specs:</u> mark some oak to remove in patches that are too dense for operations.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> conifer, aspen, hardwood, oak</p> <p><u>Other Comment:</u> Retention will be along river and will increase from current size due to areas of steep slope. Low areas of saturated ground may have to be excluded from treatment area. Evaluate during prep for possible frozen condition harvest.</p> <p><u>Site Condition</u> Portable Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
10	32032010-Cut	26.9	4116 - Mixed N. Hardwood - Aspen	Poletimber Medium	37	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to prepare site for planting red pine. Leave edge long-term retention for stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Trenching; Planting, Initial Plant; Pesticide, Skidder - Site</p> <p><u>Treatments:</u> Prep; SitePrep, Roller Chopping; Pesticide, Skidder - Release; Planting, Replant; Monitoring, Her</p> <p><u>Acceptable Regen:</u> red pine</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
11	32032011-Cut	26.5	42290 - Natural Mixed Pine	Sawtimber Medium	80	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote regeneration. Retention should include large diameter, forked crown aspen. Leave cedar, hemlock, and pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> conifer, aspen, hardwood</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Portable Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
12	32032012-Cut	11.0	42140 - Planted Mixed Pine	Poletimber Well	33	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Conduct an initial row thinning of planted pine. Remove all jack pine that is found in every other row to release red pine rows. If areas of rows</p> <p><u>Specs:</u> are too tight to accommodate modern logging equipment, may need to take additional rows for access. May thin from red pine rows if denser BA allows to drop to an average of 120 BA.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> red pine</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</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
18	32032018-5-New	1.7	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	94	111-140	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote regeneration. Leave aspen, red pine, and white pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> conifer, aspen, hardwood</p> <p><u>Other Comment:</u> This section north of the road contains scattered aspen and fall within the 300' trout stream buffer. Leave all aspen north of the road.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
18	32032018-Cut	3.8	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	94	111-140	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote regeneration. Leave red pine and white pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> conifer, aspen, hardwood</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
23	32032023-Cut	38.9	4130 - Aspen	Poletimber Well	42	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote aspen regeneration. Retention should include large diameter, forked crown aspen, preferably big tooth.</p> <p><u>Specs:</u> Leave red pine and white pine.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen</p> <p><u>Other Comment:</u> Do not leave retention along blue line, establish clear property boundary.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
28	32032028-Cut	67.7	4131 - Aspen, Oak	Sawtimber Well	80	111-140	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Harvest all merchantable trees to promote regeneration and release oak canopies for growth. Leave cedar, hemlock, pine, and oak. May mark some oak and pine to remove in patches that are too dense for operations.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> conifer, aspen, oak</p> <p><u>Other Comment:</u> Retention will be along river and will increase from current size due to areas of steep slope.</p> <p><u>Site Condition</u> Portable Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</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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31	32032031-Cut	1.5	42140 - Planted Mixed Pine	Poletimber Well	33	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Conduct an initial row thinning of planted pine. Remove all jack pine that is found in every other row to release red pine rows. If areas of rows are too tight to accommodate modern logging equipment, may need to take additional rows for access. May thin from red pine rows if denser BA allows to drop to an average of 120 BA.

Specs:
Next Step
Treatments:

Acceptable red pine
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

43	32032043-Cut	5.3	6122 - Black Spruce	Poletimber Well	84	81-110	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	No
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Prescription Harvest to a 2" spec to promote lowland conifer regeneration. Leave cedar, hemlock, and white pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory); Seeding, Machine Seed

Treatments:

Acceptable black spruce
Regen:

Other No retention for small size. Wood can be skid out the south to avoid highway conflict.
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

66	32032066-Cut	44.1	6121 - Tamarack	Poletimber Well	98	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
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Prescription Harvest to a 2" spec to promote lowland conifer regeneration. Leave cedar, hemlock, and white pine. Retention should include older, mature lowland conifer if possible.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable lowland conifer
Regen:

Other Best access would be to push new trails out to the west adjacent upland stands for decking. Large areas of the east edge may have to be excluded due to dense, small diameter trees.
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

75	32032075-Cut	5.6	6122 - Black Spruce	Sapling Medium	112	1-50	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	No
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Prescription Harvest to a 2" spec to promote lowland conifer regeneration. Leave cedar, hemlock, and white pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable black spruce, lowland conifer
Regen:

Other Push north treatment line to where diameter decreases below merchantable size and/or canopy becomes too sparse. Treatment line is an estimate based off of imagery and edge calls, could change on the ground. No retention for small size and surrounding seed source.
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

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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
76 32032076-Cut	5.0	429 - Mixed Upland Conifers	Sawtimber Medium	120	81-110	Harvest	Shelterwood	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote regeneration. Leave cedar, red pine, and white pine, unless marked with orange paint. Mark to remove pine down to 30-50 BA in dense pine areas to encourage canopy gaps for better natural regeneration.</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> aspen, hardwood, conifer</p> <p><u>Regen:</u></p> <p><u>Other</u> Push lines hard along the west to capture the more upland transition strip of larger spruce before it turns into flat, small diameter ground. No retention for small size.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
85 32032085-Cut	32.7	4123 - Red Oak	Sawtimber Well	108	111-140	Harvest	Shelterwood with Retention	4123 - Red Oak	Even-Aged	No
<p><u>Prescription</u> Green tree to leave 30 - 50 BA average. This will allow adequate sunlight to release well established oak saplings. Remove all merchantable spruce/fir. Focus on removing species competing with oak, favor larger diameter, hard mast producing oak. Leave white pine.</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> oak</p> <p><u>Regen:</u></p> <p><u>Other</u> Larger diameter gaps in this area show the best oak sapling regeneration. Strive to make gaps large enough for oak regen / release. Start date extended to combine with adjacent C33 sale in future and to avoid conflict with adjacent sale to the south.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
89 32032089-Cut	29.5	4199 - Other Mixed Upland Deciduous	Sawtimber Well	100	111-140	Harvest	Seed Tree with Retention	4199 - Other Mixed Upland Deciduous	Two-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote regeneration. Retention will be included with the lake buffer and should be a diverse mix of mature species.</p> <p><u>Specs:</u> Green tree approximately one healthy red oak per acre for seed. Leave cedar, pine, and yellow birch.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, conifer, hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Expanded lake buffer to 200' to achieve required retention and include a mix of all species. Treatment line is adjusted to reflect this. Make sure some black ash is captured in retention.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
93 32032093-Cut	8.1	6122 - Black Spruce	Poletimber Well	84	81-110	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote lowland conifer regeneration. Leave cedar, hemlock, and white pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Seeding, Machine Seed</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> black spruce or lowland conifer mix</p> <p><u>Regen:</u></p> <p><u>Other</u> Best access from south. Older landing spur off the north edge of highway can be used but will have to push a new trail into south edge of stand, probably at the stand 100/116 splitter line. No retention for small size.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</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
105 32032105-Cut	7.6	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	84	81-110	Harvest	Clearcut	612 - Lowland Coniferous Forest	Even-Aged	No
<u>Prescription</u> Harvest to a 2" spec to promote lowland conifer regeneration. Leave cedar, hemlock, and white pine.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> lowland conifer, aspen, hardwood mix										
<u>Regen:</u>										
<u>Other</u> Cedar may become too dense in S/SE area and may need to be excluded, determine during sale prep. If treatment cannot connect to adjacent south treatment because of dense cedar, then a decking stub may need to be pushed off from the highway. Treatment lines may change +/- depending on how dense cedar stocking becomes. No retention for small size.										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2023										
122 32032122-Cut	12.4	42110 - Planted Red Pine	Sawtimber Well	93	111- 140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> Harvest to a 2" spec to prepare site for planting red pine. Leave edge long-term retention for stand.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial										
<u>Treatments:</u> Plant; SitePrep, Roller Chopping; Planting, Replant; Pesticide, Skidder - Release; Monitoring, Her										
<u>Acceptable</u> red pine										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2023										
127 32032127-Cut	13.4	4199 - Other Mixed Upland Deciduous	Sawtimber Well	90	111- 140	Harvest	Single Tree Selection	4140 - Other Upland Deciduous	Two-Aged	No
<u>Prescription</u> Mark stand to 60-80 BA. Focus on improving quality. Remove all merchantable spruce/fir and aspen. Leave some large future snag trees for										
<u>Specs:</u> wildlife. Leave cedar, hemlock, and any white pine 24" or greater at the stump. Favor white pine while marking.										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> oak, hardwood, conifer										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2022										
136 32032136-Cut	5.8	42110 - Planted Red Pine	Sawtimber Well	85	141- 170	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> Harvest to a 2" spec to prep stand for initial red pine planting. Leave edge retention to avoid issues with planting operations.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder -										
<u>Treatments:</u> Site Prep; Planting, Initial Plant; Pesticide, Skidder - Release; Planting, Replant; Monitoring, Her										
<u>Acceptable</u> red pine										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2023										



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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
142 32032142-Cut	8.5	4130 - Aspen	Poletimber Well	42	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote aspen regeneration. Retention should include large diameter, forked crown aspen. Leave red pine and white pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, spruce/fir, pine, mixed hardwood</p> <p><u>Other Comment:</u> Look for edge retention in north strip bordering lowland area.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment 458
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 32
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions									
		With Condition	Not Available		2B	2D	5B	5C	1C	2A	2F	3J	3L	5D
893	612	204	77	Aspen	35	170			30			46		
56	56	0	0	Cedar										
17	17	0	0	Herbaceous Openland										
203	190	3	9	Jack Pine				3			9			
14	8	0	7	Lowland Conifers								7		
40	40	0	0	Lowland Mixed Forest										
47	47	0	0	Lowland Shrub										
82	23	0	59	Lowland Spruce/Fir										59
15	8	0	7	Marsh					7					
207	130	0	76	Mixed Upland Deciduous						40		36		
56	29	27	0	Natural Mixed Pines		27								
51	46	5	0	Northern Hardwood	5									
33	33	0	0	Oak										
12	12	0	0	Planted Mixed Pines										
41	31	10	0	Red Pine			10							
44	44	0	0	Tamarack										
17	17	0	0	Treed Bog										
32	27	0	5	Upland Conifers					5					
242	133	20	89	Upland Mixed Forest				20			29	60		
14	14	0	0	Urban										
14	14	0	0	Water										
69	6	63	0	White Pine			63							
2,198	1,537	332	329	Total Forested Acres	39	196	73	23	42	40	29	151	7	59
	70%	15%	15%	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: 300' trout stream buffer contains scattered aspen.							

Report 4 – Site Conditions

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Eric Brolin : Examiner

Compartment: 32
Year of Entry: 2024

2	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: 2022, EB, Stand was recently harvested. Moderate pine regeneration should fill in with time.</p>							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<p>Comments: 200' lake buffer and long term retention for stand 89.</p>							
4	Unavailable	5D: Unproductive Forest Land	8	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: This triangle tip will probably never be managed. Very sparse, unproductive lowland conifer. More of a treed bog. Possible manageable areas in the far south of this stand in the adjacent south compartment but not here.</p>							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Flooded lowland patch.</p>							
6	Unavailable	5D: Unproductive Forest Land	51	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Pretty old, stunted black spruce. Very sparse with small diameter and short heights. Mainly large sapling sized with very little actual merchantable mixed in. Sparse canopy except for small transition areas in the south that will be managed this YOE. The rest may never be manageable.</p>							
7	Available	5B: Maintain for regeneration purposes	63	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Aspen saplings fully stocked. Any management would significantly damage sapling resource.</p>							

Report 4 – Site Conditions

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Eric Brolin : Examiner

Compartment: 32
Year of Entry: 2024

8	Unavailable	2A: Adjacent landowner denied access	40	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Access from the north denied. Steep rock ledges around W/E/S of stand. See stand notes.</p>							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Small manageable area, private access, and very low stocking of merchantable trees.</p>							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	41	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: 300' trout stream buffer.</p>							
11	Unavailable	3L: Other wildlife concerns	7	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Too dense with cedar. Management would significantly damage cedar resource. Lines may change based on prep work on the ground. Update SC after lines are determined.</p>							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	34	2A: Adjacent landowner denied access	2F: Too steep	Unspecified	Unspecified
<p>Comments: 300' trout stream buffer. Access from the north denied. Steep rock ledges around W/E/S of stand. See stand notes.</p>							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: 100' lake buffer.</p>							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 32
Year of Entry: 2024

14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 300' trout stream buffer.							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Allow aspen to grow more into merchantable size before managing. Aspen is right at that pole transition size.							
16	Unavailable	2F: Too steep	29	2A: Adjacent landowner denied access	Unspecified	Unspecified	Unspecified
Comments: Terrain and adjacent landowner would exclude this area from future management.							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 100' trout stream buffer, more than 50' wide, faster water.							
18	Available	2B: Unknown if access through adjacent landowner(s) is possible	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Could not contact west landowner at this time for access. Landowner to the north denied access for future management.							
19	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	5E: Long-Term Retention	2F: Too steep	Unspecified	Unspecified
Comments: Minimum 100' buffer along river and long term retention for adjacent stands. Most likely will increase in areas with steeper slopes.							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 32
Year of Entry: 2024

20	Unavailable	1C: Other dept or div proc/practices	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	196	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments: Private bridge is not adequate for access from the south. Will need to place portable bridge over top for access. Needs survey corners.							

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	4130 - Aspen	Sapling Well	95.2	26	51-80	N/A	Dense aspen stand transitioning to more pole sized trees. Large scattered pine with dense patches of conifer sapling/poles heavy to pine. A low ground drainage way makes up the NE border of this stand.																																																			
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2	4130 - Aspen	Sapling Well	34.9	18	1-50	N/A	Aspen saplings with scattered residual pine. W/SW border runs along lowland drainage way. Treated under permit #32-014-04-01.																																																			
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3	4311 - Pine, Aspen Mix	Sapling Well	4.8	26	1-50	N/A	Aspen range from 16 to 20 feet tall. White pine poletimber are short, with rapidly tapering trunks. They have healthy foliage. White spruce saplings also found.																																																			
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4	122 - Road/Parking Lot	Nonstocked	1.1	0		No	M35																																																			
5	429 - Mixed Upland Conifers	Poletimber Well	22.1	90	51-80	N/A	Cut in 1996. Fairly dense canopy of smaller to medium sized pine. Any openings have more dominant aspen saplings with smaller saplings growing under pine canopy. Dense understory of mixed conifer. Treated under permit #32-019-94-01.																																																			
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6	4136 - Aspen, Mixed Conifer	Poletimber Well	38.9	37	51-80	N/A	Dense aspen stand with a good mix of pole sized trees and dense large saplings just under merchantable size. Scattered dense patches of mixed conifer heavy to white pine sapling/pole size.																																																																									
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7	4139 - Aspen, Mixed Deciduous	Sawtimber Well	114.9	80	111-140	N/A	A lot of flatter area with smaller rock outcrops. A bit lighter stocking than adjacent stand to the south and contains more quaking aspen, red maple, and conifer. Any merchantable fir has died out or will soon be leaving us. Trails exist for access but are very narrow. Narrow swales and flats between rocky elevations rises are saturated and soft, may require frozen conditions for management.																																																																									
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8	500 - Water	Nonstocked	10.8	0		No																																																																										
9	42220 - Natural Jack Pine	Sawtimber Poor	8.3	99	51-80	N/A	Accessed through private to north. Landowner would allow access for management but stand is not worth setting up for management. Large, dense jack pine along south slope to stream would have to be removed with a 300' trout stream buffer due to aspen mixed in. The actual manageable area has less than 25% canopy of declining jack pine with large open patches of some saplings and hazel brush.																																																																									
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10	4116 - Mixed N. Hardwood - Aspen	Poletimber Medium	26.9	37	51-80	N/A	Large vast areas of open grown one stick cherry poles. Small patches of dense aspen poles with scattered fir.																																																																									
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11	42290 - Natural Mixed Pine	Sawtimber Medium	26.5	80	51-80	N/A	Larger diameter scattered conifer with fairly open overstory containing many large gaps. Very large diameter jack pine is declining with many standing and down snags already. Mixed maple saplings are dense in most gaps. Any live jack pine and fir should be salvaged ASAP or will be lost.																																															
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12	42140 - Planted Mixed Pine	Poletimber Well	11.0	33	111-140	N/A	Alternating rows between red pine and jack pine. Red pine crowns have started to outcompete the jack pine now and have a decent diameter. Less than 8' of room between the actual red pine crowns leaving very little space for the jack pine to continue growth. Jack pine averages about 2 merchantable stick trees. Average of 12' - 15' between red pine rows. Average of about 130 BA. Alternating rows of jack and red pine. Plantation fully stocked. Jack pine have poor form. Red pine have good form. Bottom four feet of red pine boles have dead branches. Pine range from 16 to 24 feet tall.																																															
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13	4133 - Aspen, Mixed Pine	Sapling Well	15.6	15	1-50	N/A	Dense aspen saplings with fir mixed in and scattered residual pine. Treated under permit #32-014-04-01.																																															
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14	4311 - Pine, Aspen Mix	Sapling Well	26.9	26	1-50	N/A	Dense aspen saplings topped by evenly dispersed small sawlog sized pine. Patches of jack pine saplings in the east half. Treated under permit #32-014-84-01.																																															
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15	3102 - Grass	Nonstocked	13.9			No	Powerline ROW.																																															
17	42220 - Natural Jack Pine	Poletimber Well	8.1	36	51-80	N/A	Patch that appears to have been natural jack pine. Aspen mixed in with pine saplings/poles within. Jack pine is a bit open grown in spots having good diameter but shorter heights and low branching.																																															
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18	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	5.6	94	111-140	N/A	Large diameter jack pine with some standing snags in the north half. Transitions to more of a mature aspen canopy in the south half with mixed conifer.																																											
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19	42120 - Planted Jack Pine	Poletimber Well	33.2	36	81-110	N/A	Jack pine poles with rows in the west dominated by aspen poles. Imagery comparison estimates nearly 20% damage from snowstorm, fall of 2018.																																											
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20	6220 - Alder/willow	Nonstocked	12.6			No	Green Creek. Dense lowland alder flat between rock outcrop stands.																																											
21	6220 - Alder/willow	Nonstocked	20.1	0		No	Lowland stream flat with sparse alder and marsh grass.																																											
23	4130 - Aspen	Poletimber Well	119.0	42	81-110	N/A	Good quality aspen pole stand. Areas across the stand range from smaller pole to larger pole size. West area near the river contains more conifer understory and even some low ground patches. Small opening in SE area growing in with some short red pine poles and conifer saplings. Stand will hold well and increase in diameter for another YOE cycle.																																											
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24	42290 - Natural Mixed Pine	Sawtimber Medium	4.6	90	51-80	N/A	Open pine log canopy with saplings in openings.																																											
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25	500 - Water	Nonstocked	2.9			No	Water																																											
26	42120 - Planted Jack Pine	Sapling Well	14.5	27	1-50	N/A	Moderately dense jack pine saplings with heavy snow damage to saplings from snowstorm, fall of 2018. Imagery comparison estimates over 50% damage to jack pine canopy. Planted to jack pine in 1996.																																											
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27	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	5.2	15	1-50	N/A	Heavy to red maple stump sprouts. Scattered large pine and some residual aspen/hardwood. Patch of jack pine saplings in NW corner. The E/NE area may not have been managed around private driveway.																																																																	
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28	4131 - Aspen, Oak	Sawtimber Well	70.4	80	111-140	N/A	Large risen elevation hump with excellent quality bigtooth aspen, transitioning to more quaking aspen along the lower elevation transitions, and patchy oak scattered within. Red oak ranges from scattered individual trees, to clumps, to small patches (5-15 trees). A lot of smaller, good quality straight red oak is found ranging from large sapling to small sawlog size and would benefit from being released from aspen competition / overtopping. Very steep slopes along majority of east / NE edge. Existing trail does loop through the north but is very narrow.																																																																	
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29	42210 - Natural Red Pine	Sawtimber Medium	9.9	100	51-80	N/A	Sparser canopy gaps across stand and regen is not very strong. Scattered hardwood and aspen saplings with a decent amount of mixed pine saplings. Should grow in nice with more time. Good mix of residual pine species and age classes left. White pine ranges from saplings to logs and red pine more XL sawlog size. Residual is heavier to white pine.																																																																	
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30	110 - Low Intensity Urban	Nonstocked	3.8			No	M-35 corridor.																																																																	
31	42140 - Planted Mixed Pine	Poletimber Well	1.5	33	111-140	N/A	Alternating rows between red pine and jack pine. Red pine crowns have started to outcompete the jack pine now and have a decent diameter. Less than 8' of room between the actual red pine crowns leaving very little space for the jack pine to continue growth. Jack pine averages about 2 merchantable stick trees. Average of 12' - 15' between red pine rows. Average of about 130 BA. Alternating rows of jack and red pine. Plantation fully stocked. Jack pine have poor form. Red pine have good form. Bottom four feet of red pine boles have dead branches. Pine range from 16 to 24 feet tall.																																																																	
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32	4133 - Aspen, Mixed Pine	Sapling Well	46.2	27	1-50	N/A	Mixed dense saplings heavy to aspen. Areas denser to large diameter pine have sparser sapling stocking. Steep terrain across some areas of the stand.																																																															
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33	4130 - Aspen	Sapling Well	13.4	16	Immature	N/A	Mostly dense aspen canopy with patches of residual pine canopy. Scattered red oak logs across stand.																																																															
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34	4133 - Aspen, Mixed Pine	Sapling Well	4.4	27	1-50	N/A	Mixed dense saplings heavy to aspen. Areas denser to large diameter pine have sparser sapling stocking. Managed with stand 62 to the north but cut off by private access and gate.																																																															
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35	4130 - Aspen	Sawtimber Well	30.3	89	81-110	N/A	Aspen is overmature and in decline. Many snags and deadfalls. Some fresh windthrow of aspen as well. Jack pine is also very advanced in age/condition. Many jack pines have sparse foliage and there are numerous snags present. Terrain becomes more rugged with rock outcroppings to north. Aspen is mainly 4 and 5 stick in height. Jack pine is 5 and 6 stick in height. More overstory oak and white birch to the north. The DNR survey monument and BTs at the NW corner of this 40 were located. Black spruce, fir and white pine are minor overstory associates. Fir and black spruce saplings found.																																																															
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White Pine	Low	10 - 20 feet	Sapling																																																																			
38	6233 - Wet Meadow	Nonstocked	7.0			No	Sedge are the predominant cover. Several old beaver ponds. Some patches of leatherleaf and tag alder. Areas of flooded snags. Fringe of black spruce and tamarack saplings. Did not locate a flowage or stream.																																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
39	429 - Mixed Upland Conifers	Poletimber Well	5.0	80	111-140	N/A	Exposed bedrock found to south portion of stand. More black spruce and tamarack found to north as site grades down to lowlands. Oak saplings found.																																																
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42	4130 - Aspen	Sapling Well	11.7	14	1-50	N/A	Cut in 2007. Young aspen ranging from dense aspen to patchier wet pockets.																																																
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43	6122 - Black Spruce	Poletimber Well	5.3	84	81-110	N/A	Small lowland stand dominated by large diameter black spruce. Denser in most areas except for a couple of sparser patches along the highway. Strip of fir along the south edge bordering upland. A little bit of decline along the sparser patches.																																																
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44	42120 - Planted Jack Pine	Sapling Medium	37.2	26	1-50	N/A	Jack pine planted in 1996. Transitioning to pole sized trees. Small lowland patch in SE corner. Some snowstorm damage from fall of 2018. Imagery comparison estimate that about 25% of jack pine canopy is damaged. Treated under permit #32-015-94-01.																																																
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45	4311 - Pine, Aspen Mix	Sapling Well	28.0	15	Immature	N/A	Even mix of jack pine and aspen saplings, denser to different species in patches across stand. Jack pine stocking seems a bit more dense in the north half and aspen more dense in the south half but overall a good mix. A small lowland patch in the center contains large jack pine and sparse black spruce canopy. Jack pine are between 3 and 4 feet tall. Good even distribution of jack pine saplings across site - stand will be fully stocked. Aspen found mainly to west end of stand. Aspen is 8 to 10 feet tall. Treated under permit #32-012-04-01. Unable to find copies of planting FTP and FTP-CR.																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
48	4130 - Aspen	Sapling Well	17.6	15	1-50	N/A	Aspen sapling stand with small to moderate sized white pine mixed in.		
							Treated under permit #32-012-04-01.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Red Maple	10	Sapling	2		Jack Pine	Low	Variable	Sapling
	White Pine	10	Log/Pole/Sap	12		White Pine	Low	Variable	Sapling
	Balsam Fir	2	Sapling	4					
	Quaking Aspen	78	Sapling	3	15				
49	4139 - Aspen, Mixed Deciduous	Poletimber Well	39.6	87	81-110	N/A	2022, EB, Could not access area. Old inventory data was kept for stand. Access from the north was denied for future management. Cannot contact any landowners from the west for access at this time.		
							Treatment of this stand was delayed last entry period for age/size class diversity.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Sugar Maple	8	Pole/Log	6		Balsam Fir	Medium	10 - 20 feet	Sapling
	Bigtooth Aspen	5	Log/Pole	12	87	White Pine	Low	Variable	Sapling
	Quaking Aspen	35	Log/Pole	12	87	Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
	Red Maple	35	Pole/Sap/Log	8		Black Spruce	Low	5 - 10 feet	Sapling
	Balsam Fir	8	Pole	8					
	White Pine	3	Log/XLog/Pole	18					
	Paper Birch	6	Pole/Log	9					
52	4112 - Maple, Beech, Cherry Association	Poletimber Well	4.9	70	111-140	N/A	2022, EB, Did not access area. Used old inventory data. Landowner from the north denied access for future management. Cannot contact west landowner at this time.		
							Dense sugar maple regeneration less than 1 foot tall. Leatherwood in stand. Nice timber management potential. Yellow birch, black cherry and white pine are uncommon overstory associates. Aspen in serious decline.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Quaking Aspen	8	Log	14		Sugar Maple	High	< 5 feet	Seeding
	Red Maple	25	Pole/Log	9		Sugar Maple	Low	>20 feet	Sapling
	Paper Birch	5	Pole/Log	8					
	Red Oak	2	Log	16					
	Sugar Maple	60	Pole/Log	10	70				
53	4133 - Aspen, Mixed Pine	Sapling Well	25.7	25	1-50	N/A	Aspen sapling to near pole sized trees. Scattered conifer.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Red Maple	2	Pole/Sapling	6		Balsam Fir	Low	Variable	Sapling
	Quaking Aspen	67	Sapling/Pole	4	25	White Pine	Medium	Variable	Sapling
	Balsam Fir	4	Sapling/Pole	4		Red Maple	Low	Variable	Sapling
	Black Spruce	2	Sapling/Pole	4					
	White Pine	10	Sapling/Pole	4					
	Jack Pine	15	Sapling/Pole	4					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
54	4130 - Aspen	Sapling Well	27.9	18	1-50	N/A	Dense aspen saplings. There is a good amount of white pine saplings in areas also some decent red oak saplings in the understory. Large remnant white pine and oak are scattered across the stand. Small black spruce patch located in the eastern tip.																																																							
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58	4130 - Aspen	Sapling Well	37.5	15	1-50	N/A	Dense aspen sapling stand with scattered residual pine. There is a good amount of white pine saplings found in the understory.																																																							
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59	122 - Road/Parking Lot	Nonstocked	2.3			No	Crooked Lake Road																																																							
61	622 - Lowland Shrub	Nonstocked	6.9	0		6122 - Black Spruce	Cut in 2016. No sign of black spruce regen yet. Monitor next inventory cycle.																																																							
65	6224 - Treed Bog	Nonstocked	16.5			No	Very sparse black spruce, tamarack, jack pine, and white pine saplings. Non-productive ground.																																																							
66	6121 - Tamarack	Poletimber Well	44.1	98	81-110	N/A	NW to SW area - decent diameter tamarack with black spruce speckled in and little patches of cedar. Somewhat sparse in areas but overall needs to be regenerated. Some tamarack is declining otherwise healthy stand with fairly open under story with scattered red maple saplings. Average closer to 80 BA.																																																							
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67	4311 - Pine, Aspen Mix	Sapling Well	33.6	25	Immature	N/A	Dense aspen large saplings to smaller diameter saplings under pine canopy dominated areas. Pine more dominant in north 1/4 of stand. Dense white pine and fir saplings in understory. Fir is declining and/or dead from budworm damage. Very mixed species composition in overstory. Dense stocking. Residual white pine form a seed tree distribution. Purer aspen regeneration to east with heavier hazel understory. Aspen is approximately 30 feet tall. Patch of dense J3 12 to 16 feet tall along east side of stand. Black spruce, red maple and black cherry saplings present. Black spruce poles and red pine sawtimber are uncommon. Treated under permit #32-016-94-01.																																																				
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68	4319 - Mixed Upland Forest	Poletimber Well	56.3	89	81-110	N/A	2022, EB, could not access. Kept old inventory data for stand. Cut off by stream and private access. Appears to have steep slope running the length of the stand. North adjacent landowner does not want to allow road access for management. This combination would exclude this stand from future management. Aspen past rotation with fading crowns and snags. Gaps in stocking from mortality. White birch poles present. White pine saplings found.																																																				
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69	500 - Water	Nonstocked	0.6			No	Bog pond.																																																				
71	4311 - Pine, Aspen Mix	Sapling Poor	22.5	6	1-50	N/A	Center portion cut in 2016. Area along north edge was left for buffer and retention, rocky slope to stream. Unmanaged area in the south tip was cut off by a narrow alder drainage, could have been managed, scattered pine and declining fir canopy with overmatured aspen mixed in. Managed portion of stand has very sparse regen. Scattered jack pine, white spruce, and some aspen/maple saplings in areas. Old powerline ROW along west edge of stand. Will make a good access road. Jack pine is 4 to 6 stick tall. Jack pine snags and deadfall common. Also spruce and fir deadfall. Pine is heaviest in south and stand contains more aspen and birch to the north. Aspen averages 4 stick tall. Some upland fir/spruce patches. Infrequent red pine sawtimber. White pine, black cherry and white birch saplings present.																																																				
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72	42200 - Natural White Pine	Sapling Poor	2.2	16	1-50	N/A	Opening growing in fairly dense in patches to conifer. Heavy to white pine. Sparse grass and moss in patches. Site is covered with about 95% sweetfern. Scarce white pine saplings - 3 to 5 feet tall. Some red pine saplings. Few white pine sawlogs.																																																				
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74	4134 - Aspen, Spruce/Fir	Sapling Well	33.2	28	1-50	N/A	Cut in 1994. Aspen sapling stand with dese areas of sapling to pole sized fir.																																																				
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75	6122 - Black Spruce	Sapling Medium	56.5	112	1-50	N/A	Very small diameter, stunted short trees. Sparse canopy of small diameter across most of area. Overall average probably under 75% canopy. Some larger diameter, more dense spruce is found along upland transition areas in the south along private. These areas will be managed with adjacent upland stands. Look for these opportunities in the future while managing adjacent upland stands although it does not appear that much more exist besides the south edges.																																																				
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76	429 - Mixed Upland Conifers	Sawtimber Medium	5.0	120	81-110	N/A	Upland peninsula surrounded by lowland conifer. Dense red pine log area with patches of declining aspen and large diameter upland black spruce. Somewhat patchy canopy in center. Nice diameter black spruce strip in the transition into lowland ground. Surrounding black spruce stand is sparse and small diameter.																																																				
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80	6120 - Lowland Cedar	Poletimber Well	25.6	112	111-140	N/A	Dense to cedar. Very wet ground.																																																				
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83	4136 - Aspen, Mixed Conifer	Sapling Well	7.8	5	Immature	N/A	Aspen sapling stand with scattered pine.																																																										
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84	4199 - Other Mixed Upland Deciduous	Poletimber Well	74.3	92	111-140	N/A	Used past inventory info for stand update. Stand can not be accessed off of powerline due to steep rock cliff near compartment corner. Flooded lowland stream and/or steep rock cliffs surround the stand along the west, south, and east edges. Access from the north appears to be similar with streams and rock ledges. Landowner to the north does not want to allow access across his land because of road damage and building new road across private.																																																										
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85	4123 - Red Oak	Sawtimber Well	32.7	108	111-140	N/A	Cut in 1994. Oak dominated canopy ranges from densely stocked patches to lighter canopy. Small gaps across stand are growing in from adjacent canopies. A fair amount of oak saplings scattered across the understory but especially in gaps. Oak saplings range from 5' to 15' high depending on how dense the surrounding canopy cover is. Some sapling patches heavy to red maple. Narrow strip along south has aspen poles with dense hardwood saplings.																																																										
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86	6230 - Cattail	Nonstocked	8.2			No	Powerline right-of-way. Ponds of water present.																																																										
87	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	39.5	79	51-80	N/A	Stand is a very wet flooded swale. Large areas of small diameter, dense black ash with small diameter, very short cedar. Very poorly drained area. Moderately healthy cedar crowns. 2/3 of cedar boles have good form. Infrequent white pine and white birch in overstory.																																																										
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89	4199 - Other Mixed Upland Deciduous	Sawtimber Well	31.5	100	111-140	N/A	<p>Very diverse mix of mature trees. Lower flat in the east 1/3 of stand is very heavy to paper birch. Birch is large pole sized with a good amount of small sawlog sized trees mixed in. Stand transitions up a slight slope to the west and contains more of a mix. Most fir is dead and down. Light understory of fir and red maple saplings.</p> <p>All canopy species are over-mature. High percentage of white birch snags. White birch have nice form and range from 3 to 4 sticks in height. Some 18 inch Dbh bigtooth aspen. Cedar, black spruce and jack pine poles present. Pines are more frequent on ridgetops.</p>																																																																										
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92	6220 - Alder/willow	Nonstocked	7.4			No	Stream floodplain and powerline ROW.																																																																										
93	6122 - Black Spruce	Poletimber Well	8.1	84	81-110	N/A	<p>Decent diameter black spruce showing some decline. Patchy stocking in areas probably averages closer to 75% canopy closure. Some small cedar patches could be managed around without damage.</p>																																																																										
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94	310 - Herbaceous Openland	Nonstocked	2.6	0		6122 - Black Spruce	Cut in 2016. Stand has not started natural regeneration process yet.																																																																										
95	4311 - Pine, Aspen Mix	Sapling Well	42.2	17	1-50	N/A	<p>Larger pine dispersed across stand. Any open canopy areas are dominated with aspen saplings otherwise dense mix of suppressed saplings under pine.</p> <p>Treated under permit #32-015-04-01.</p>																																																																										
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96	122 - Road/Parking Lot	Nonstocked	2.9			No	M-35 ROW.																																																																										



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97	4319 - Mixed Upland Forest	Sawtimber Well	8.1	106	111-140	N/A	Used old stand data to update. Can not access between lake and dense cedar. Possible upland access from north but would require significant road construction across a large private stand.																																																				
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100	42200 - Natural White Pine	Sawtimber Well	4.0	95	51-80	N/A	Sparser canopy of large diameter mixed pine, heavy to white pine. Dense fir understory with patches of nice white pine saplings. Some nice patches of 6 to 12 foot tall white pine saplings. Pine overstory has shelterwood spacing. Aspen, red pine and red maple saplings found. Treated under permit #32-024-94-01.																																																				
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102	6120 - Lowland Cedar	Poletimber Well	30.4	112	81-110	N/A	Dense cedar stand.																																																				
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105	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	14.5	84	81-110	N/A	Mature lowland conifer stand. Stand has sparser upper canopy stocking of black spruce and white pine evenly dispersed across stand. Cedar is more dominant in most of stand with shorter canopy trees with pole/sapling sized understory trees. A majority of this stand has too much cedar mixed in to be managed without damaging resource. A portion of the far east has less cedar and could be managed.																																																				
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106	42290 - Natural Mixed Pine	Sapling Medium	14.7	15	Immature	N/A	Some sparse gap scrolling in with saplings. For Fur and white pine more dense in open patches without Jack pine. Some scattered residual white pine logs. Jack pine are from 2 to 4 feet tall. Black spruce are from 3 to 4 feet tall. Aspen are 10 feet tall. Scattered black cherry saplings. Infrequent white pine poles. Stand is under FTP 32-783. Site was flat planted in 2018 count to come in fall 2018. Site passed Regen count and can be closed.																																																				
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108	4112 - Maple, Beech, Cherry Association	Sawtimber Well	19.0	89	81-110	N/A	Moderate to better quality hardwood log stand dense to sugar maple. Scattered ironwood saplings with some patches of maple regen/saplings in gaps. South finger is dense with fir sapling understory has a bit poorer quality hardwoods. West half was cut in 2016. 100 100 90 Average of 95 BA.																																														
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109	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	5.1	6	1-50	N/A	Sparse saplings scattered across stand. No black spruce regen observed yet but should seed in with some pine based off of what was observed in adjacent areas. White pine poles reserved. Cut in 2016																																														
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113	6122 - Black Spruce	Poletimber Medium	8.4	105	51-80	N/A	Very sparse, small diameter black spruce in the south with a strip that has tamarack mixed in along the north. Sparse, wet unproductive ground with alder understory.																																														
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114	4134 - Aspen, Spruce/Fir	Poletimber Well	7.1	33	51-80	N/A	Narrow young aspen pole strip. Mixed conifer scattered within. Treated under permit #32-007-89-02.																																														
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115	4199 - Other Mixed Upland Deciduous	Poletimber Well	64.8	15	51-80	N/A	A lot of oak log residual trees. Dense saplings in areas. Difficult terrain with low swales and steep rock outcrops that can not be managed. Most of the north half is cut off by steep cliffs. and long hills. Hard to tell exactly which areas were managed without walking the entire area. Treated under permit #32-015-04-01.																																														
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116	42120 - Planted Jack Pine	Sapling Medium	39.9	27	1-50	N/A	2022, EB, Dense jack pine. Mainly larger sapling sized with some aspen speckled within. Stand was heavily damaged by snowstorm believed to be from fall of 2018. Imagery comparison estimates closer to 50% damage to jack pine canopy. Allow stand to grow one more YOE cycle and reevaluate if there is a need to restart. This time will allow what is left to grow into more merchantable pole sized trees. Treated under permit #32-024-94-01.																																																			
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117	4130 - Aspen	Poletimber Well	39.7	37	51-80	N/A	Stand varies in diameter across entire area. Healthy aspen dominates ranging from small pole to near sapling size with patches of near log sized trees. Seems to be different age classes of aspen mixed in. Edges bordering hardwoods have denser stocking and smaller diameter. Adequate stocking. Aspen is approximately 24 feet tall. Widely scattered white pine sawtimber. White pine saplings growing along disturbed edges of road. Red pine saplings found.																																																			
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119	42120 - Planted Jack Pine	Poletimber Well	37.4	33	81-110	N/A	2022, EB, Dense jack pine averaging small pole sized with large sapling sized trees mixed in. E/NE area was damaged pretty good from snowstorm believed to be from fall of 2018. Imagery comparisons estimate maybe 20% of the jack pine canopy was damaged across the stand area. There will be patchy areas but stand will continue with moderate-well stocked jack pine.																																																			
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121	4130 - Aspen	Poletimber Well	13.8	44	81-110	N/A	Dense aspen pole stand with large diameter white pine speckled in. Very dense fir saplings across majority of stand, most being sapling or barely merchantable size. Sparse red oak sawtimber. white pine saplings found.																																																			
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122	42110 - Planted Red Pine	Sawtimber Well	12.4	93	111-140	N/A	Good quality red pine log stand. Fairly open understory except for some scattered fir and hardwood saplings. Average of 120 BA. 3 to 5 log trees - high quality sawlogs. Infrequent white birch poles. Illegal box blind and shooting lanes in stand. Stand was thinned as "Cataract Red Pine" #014-14 in June, 2015. Random logs were cut - most had a 10', 12', and 16' length, plus an additional 2-3 sticks of pulp. Bark slippage restriction was waived.																																																			
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123	4311 - Pine, Aspen Mix	Sawtimber Well	20.1	120	81-110	N/A	Very large diameter pine evenly disbursed with dense fir sapling understory across most areas of the stand.																																																	
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124	6122 - Black Spruce	Poletimber Well	3.6	70	81-110	N/A	Smaller diameter, younger black spruce stand.																																																	
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125	42200 - Natural White Pine	Sawtimber Medium	63.0	110	81-110	N/A	Dense large diameter pine canopy was left with past management. Any gaps in pine canopy have a bit larger diameter aspen otherwise a fully stocked understory nightmare. Aspen sapling understory will more than likely be choked out with time and gaps will grow into pole size.																																																	
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126	4130 - Aspen	Sapling Poor	4.9	5	1-50	N/A	Aspen sapling with scattered red pine. A few dense aspen sapling patches in the center, otherwise no regen except for some scattered conifer saplings.																																																	
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127	4199 - Other Mixed Upland Deciduous	Sawtimber Well	13.4	90	111-140	N/A	Evenly dispersed oak logs with maple and aspen mixed in oak canopy gap areas. Some terrain around edges should be manageable.																																																	
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129	42260 - Natural Pine, Mixed Deciduous	Sapling Well	4.6	16	Immature	N/A	Dense jack pine saplings with patches heavy to aspen. Where aspen is present it is topping the jack pine. Very little storm damage to jack pine as compared to surrounding stands.																																																	
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130	122 - Road/Parking Lot	Nonstocked	1.9			No	M35
131	42110 - Planted Red Pine	Poletimber Well	13.1	25	51-80	N/A	At or just under merchantable diameter sized red pine poles with some jack pine and larger residual mixed in. Very good stocking. Red pine range from 18 to 20 feet tall. Infrequent red oak poles found. Some red pine sawtimber, white pine poles, trembling aspen poles and trembling aspen saplings. Scotch pine is mixed in throughout the plantation.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Jack Pine	7	Sapling/Pole	4		
		Quaking Aspen	1	Pole	9		
		Red Pine	92	Pole/Sapling	5	25	
132	4130 - Aspen	Sapling Well	4.9	16	Immature	N/A	Dense aspen saplings with some residual log sized pine. Decent understory of jack pine saplings will probably be choked out in the near future by the dense aspen.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Balsam Fir	3	Sapling	2		
		White Pine	3	Log/Pole	11		
		Red Pine	3	Log/Pole	11		
		Red Maple	4	Sapling	2		
		Quaking Aspen	87	Sapling	2	16	
		Sub-Canopy Species	Density	Avg. Height	Size		
		Jack Pine	Medium	5 - 10 feet	Sapling		
		White Pine	Low	5 - 10 feet	Sapling		
		Balsam Fir	Low	< 5 feet	Sapling		
134	122 - Road/Parking Lot	Nonstocked	1.8			No	Co Rd 557
135	42120 - Planted Jack Pine	Poletimber Medium	18.9	25	1-50	N/A	Planted jack pine near or just under merchantable pole sized trees. Heavy snowstorm damage from November 2018. SE area is more open grown, sparse stocking. Imagery comparison estimated to have about 30% canopy damage to jack pine. Reevaluate next YOE cycle to determine harvest and replant. This will allow the trees left to grow into merchantable size. Good jack pine stocking. Jack pine range from 12 to 18 feet tall. Found residual red oak sawtimber. Red maple saplings found. Planted in 1997.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Balsam Fir	4	Pole/Sapling	5		
		White Pine	2	Pole/Log	9		
		Red Pine	2	XLog/Log	18		
		Jack Pine	83	Pole/Sapling	5	25	
		Red Maple	4	Sapling/Pole	4		
		Quaking Aspen	5	Pole/Sapling	5		
136	42110 - Planted Red Pine	Sawtimber Well	5.8	85	141-170	N/A	Red pine log stand. Larger average diameter trees. Denser stocking area on east side of the highway. Treated under permit #32-016-04-01.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Jack Pine	5	Log/Pole	10		
		Quaking Aspen	7	Log	11		
		Red Pine	88	Log	14	85	
		Sub-Canopy Species	Density	Avg. Height	Size		
		Balsam Fir	Low	Variable	Sapling		
		Red Maple	Low	10 - 20 feet	Sapling		
137	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	12.3	5	Immature	N/A	Sparser sapling stocking in north of primarily red maple saplings. Pine log canopy becomes more dense in the south with more fir sapling understory.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Balsam Fir	15	Sapling	2		
		Red Maple	55	Sapling	1	5	
		Quaking Aspen	10	Sapling	1	5	
		Red Pine	10	Log	14		
		White Pine	10	Log/Pole	11		
		Sub-Canopy Species	Density	Avg. Height	Size		
		White Pine	Low	< 5 feet	Sapling		
		Black Cherry	Low	Variable	Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
140	4131 - Aspen, Oak	Sapling Well	29.3	16	51-80	N/A	Dense aspen saplings around edges. Stand transitions up higher elevation in the east central area where an oak canopy was left. Dense aspen in areas under canopy.																																																						
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141	42120 - Planted Jack Pine	Sapling Medium	5.4	25	1-50	N/A	Jack pine stand just under merchantable size trees. Stand was damaged badly by snowstorm in November 2018. Imagery comparison estimates about 50% damage to jack pine canopy. Reevaluate stand next YOE cycle for possible harvest and replant. This will allow what is left to reach merchantable diameter.																																																						
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142	4130 - Aspen	Poletimber Well	8.5	42	81-110	N/A	Dense aspen pole stand. Average larger diameter for younger aged trees. Average 8" DBH with patches pushing 12" DBH aspen. Excellent quality trees. Some three stick aspen. Aspen diameters range from 3 to 9 inches Dbh. Adequate stocking. Some patches of elevated mortality, but overall stocking still OK. Many boulders in stand.																																																						
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