



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52044

Entry Year 2025

Acreage: 4,431

County Charlevoix

Management Area: Wolverine Moraines

Stand Examiner: Zach Crew

Legal Description:

32N 05W Sections 1-3,5,6,11,15,16,19,24,25,27,29-36
32N 06W Section 25

Identified Planning Goals:

To provide for the protection, integrated management and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan.

Soil and topography:

The soils in this compartment are typically either mucks from the Tawas – Carbondale or Lupton – Cathro associations or loamy sands from the Kalkaska – Leelanau or Emmet – Leelanau associations. The east and south areas of the compartment are hardwood ridges that vary in grade. The other sections of the compartment are mostly lowland swamp types that are relatively flat with a very high water table.

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

Ownership is fairly contiguous throughout the compartment except for a small inholding in the west side of the compartment. Boyne Mountain is just to the north of the compartment as well as the town of Boyne Falls. Most of the surrounding area is either wooded lowlands or there are a few areas that are currently in farm land.

Unique Natural Features:

The Kondrat swamp is a large complex in the Northwest of this compartment that provides substantial habitat to a variety of flora and fauna.

Archeological, Historical, and Cultural Features:

There were a few HAL hits in 32N 05W Sections 25, 36, but after contacting the appropriate staff it was determined that these areas aren't effected by any treatments.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

This compartment is in the Boyne and Jordan River watersheds. Many small streams such as Schoolhouse Creek, Moyer Creek, North Branch Boyne River, Warner, Eaton, Cramer, and Deer creek are found within the compartment. Though none of the treatments proposed appear as if they will impact these larger bodies of water, the small tributaries in the lowlands should be protected with the appropriate BMP's and any pertinent Natural River Buffers.

Wildlife Habitat Considerations:

This compartment consists of an upland area consisting of northern hardwoods and aspen and a large wetland complex that lies in the northwest corner of the compartment. A couple of treatments are prescribed in this complex to regenerate the cedar component of the area. This wetland complex is used by numerous furbearers, white-tailed deer, and a variety of amphibian and songbird species. There will be a few aspen treatments within this compartment to maintain age class diversity. This early successional habitat benefits white-tailed deer, wild turkey, ruffed grouse, woodcock, and various songbirds. A portion of the hardwoods will be treated to add structural diversity to the stands.

Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel mining operations exist within the area including two operations within Sec 35. Potential exists for sand & gravel within the compartment on the uplands. The compartment lies on the margin of the current northern extent of the Antrim Shale gas play. Active production of Antrim gas is occurring to the east and south of the compartment. The Antrim Shale formation is thinning in this area and has less potential for production. The Antrim Shale gas play is generally in decline in the northern LP, and the trend toward plugging of wells will increase in coming years. A few parcels within the compartment are currently leased for oil & gas development, but potential for additional drilling of wells in the compartment is considered low at this time. There is no known potential for metallic minerals in this part of the state. 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 to this compartment is either off of Geim Road or Kuzmik Road in the east or Grygier Road in the West. Most of the access throughout the stand is severely worn forest roads some of which are impassable to vehicles and have been reported as RDRs. The south side of the compartment is also accessible via many small two tracks.

Survey Needs:

None

Recreational Facilities and Opportunities:

There are two boat launches in this compartment, one on Deer Lake and one at the Boyne Falls pond. There is also river access to the Boyne in the Northwest part of the compartment. The North Country path way travels through the east half of the compartment.

Fire Protection:

This area is covered by the Boyne Valley VFD as well as the Bellaire and Gaylord Field Offices. Large scale fire events are not likely to occur in this area due to the forest types found in this compartment.

Additional Compartment Information:**The following reports from the Inventory are attached:**

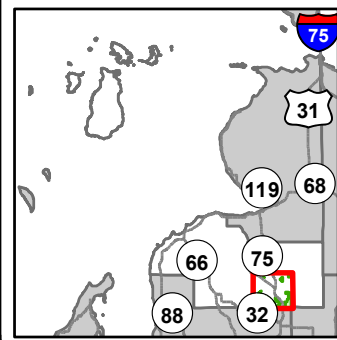
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

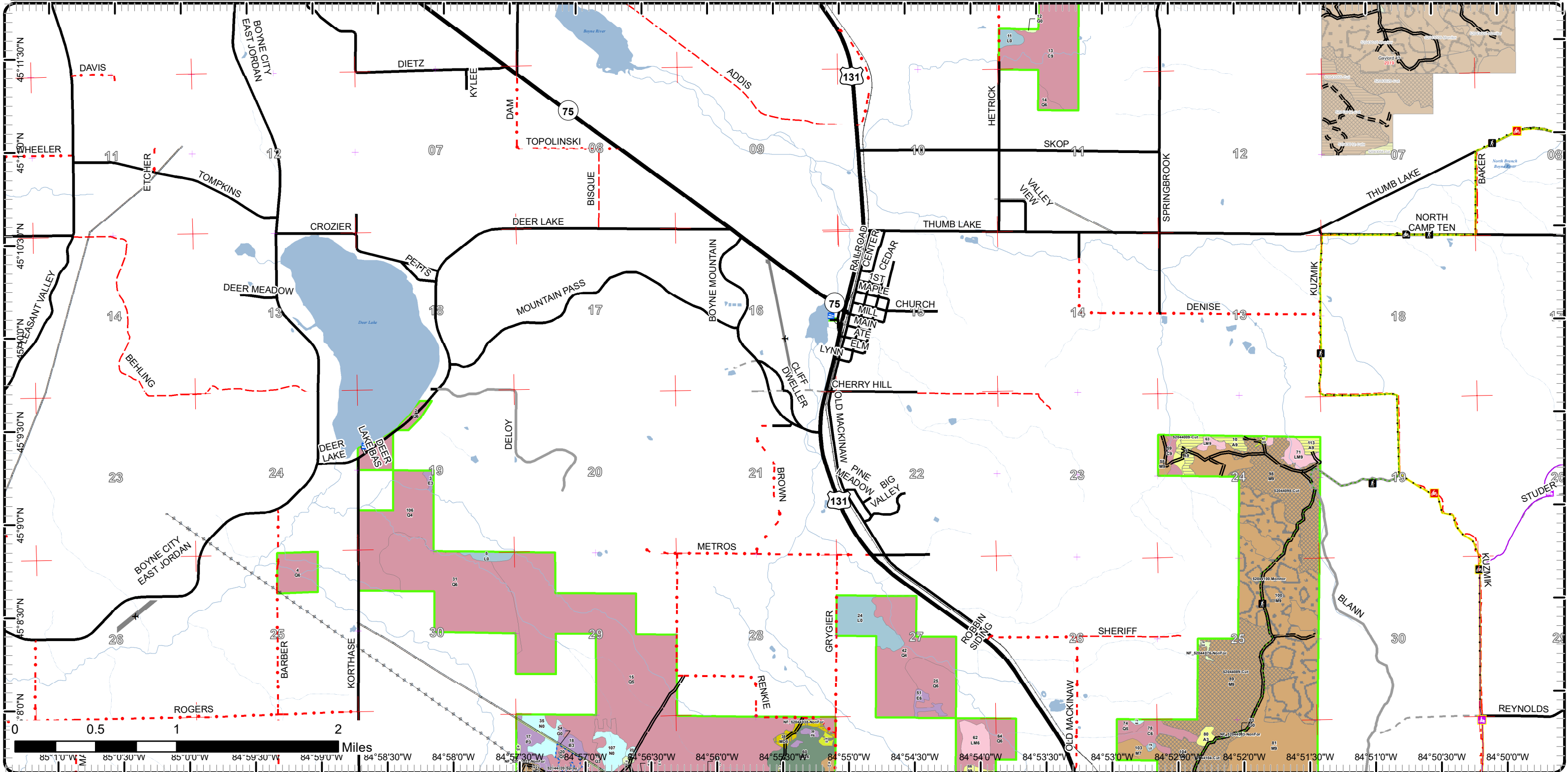
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

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 Unit: Gaylord
 Mgmt Area: Wolverine Moraines
 YOE: 2025
 Acres: 4430.9 GIS Calculated
 Examiner: Zach Crew
 Map Revised: 10/3/2023

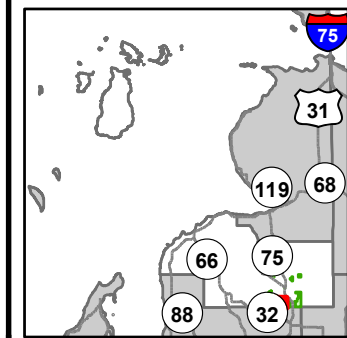


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Active Railroads
- Hiking Trails
- Snowmobile Trails
- Designated Hiking Trails
- ORV License
- Michigan Cross Country Cycle Trail (MCCCT)
- Airport
- Boating Access Site
- Drain
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Airports
- Compartment Boundary
- Treatments with Site Conditions
- Pesticide
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
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- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland

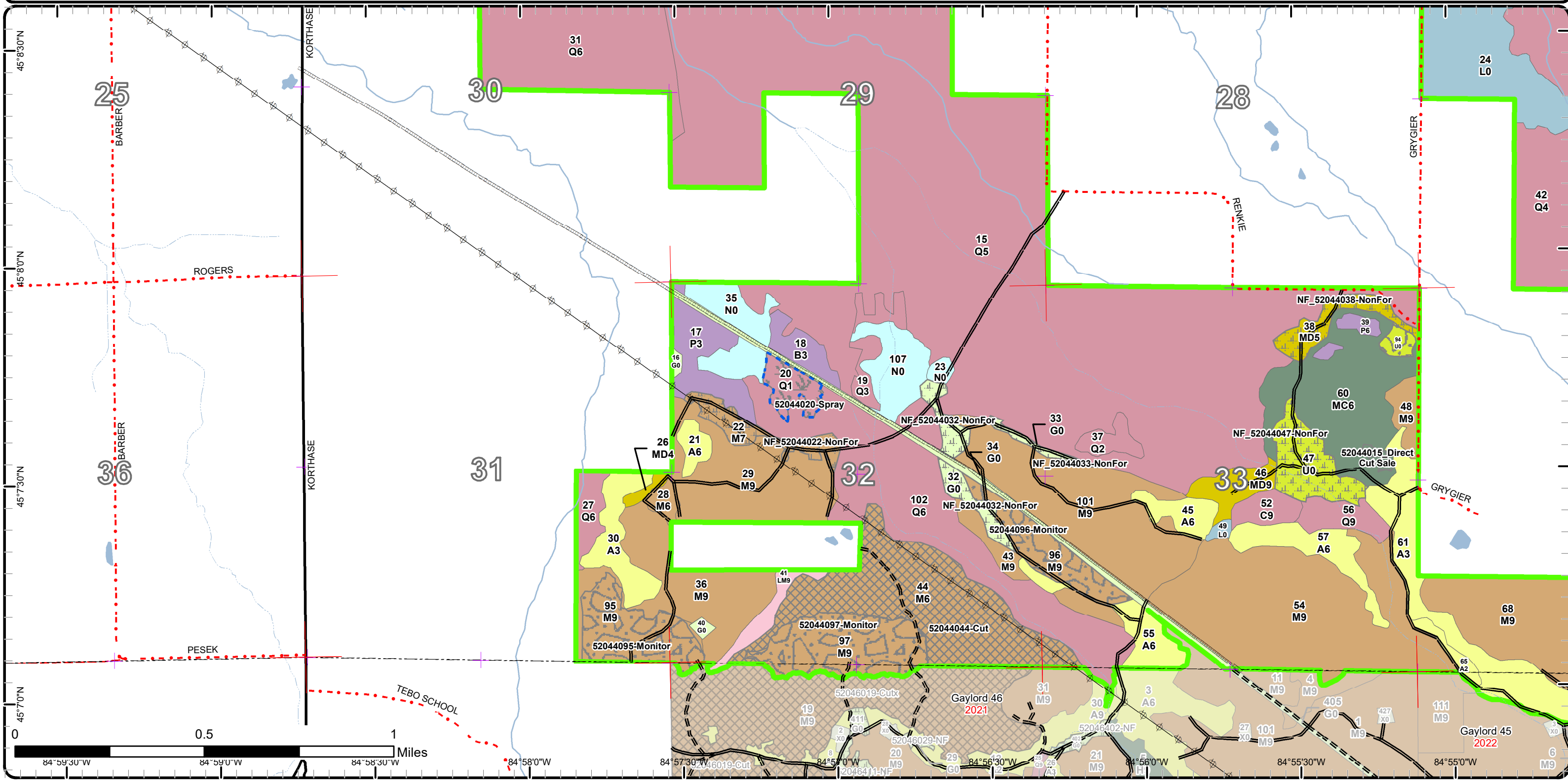


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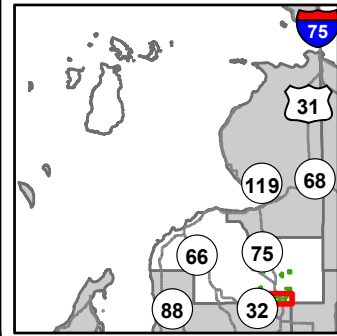


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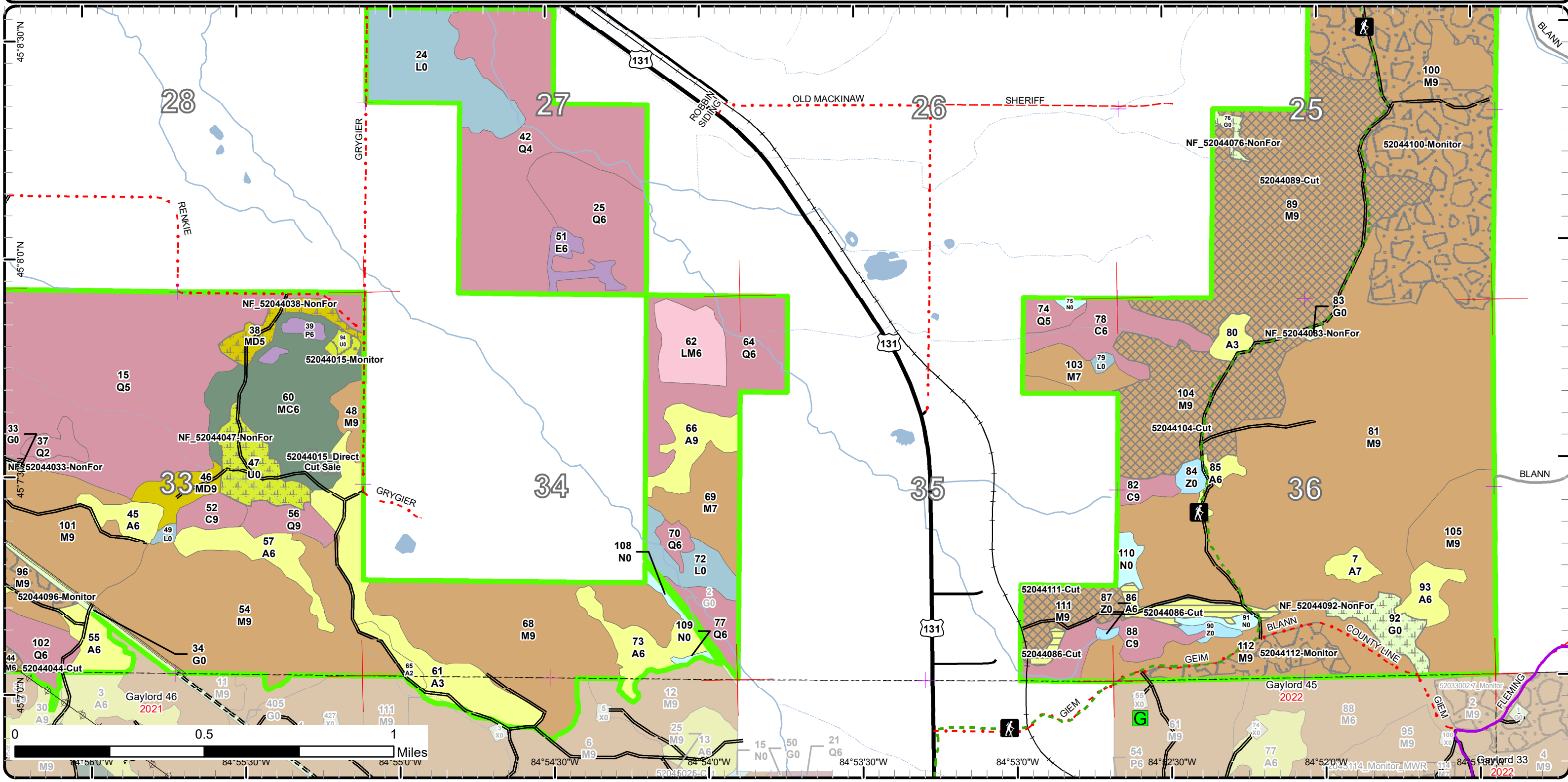


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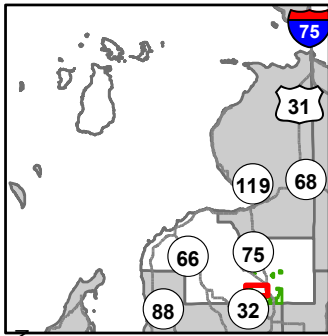


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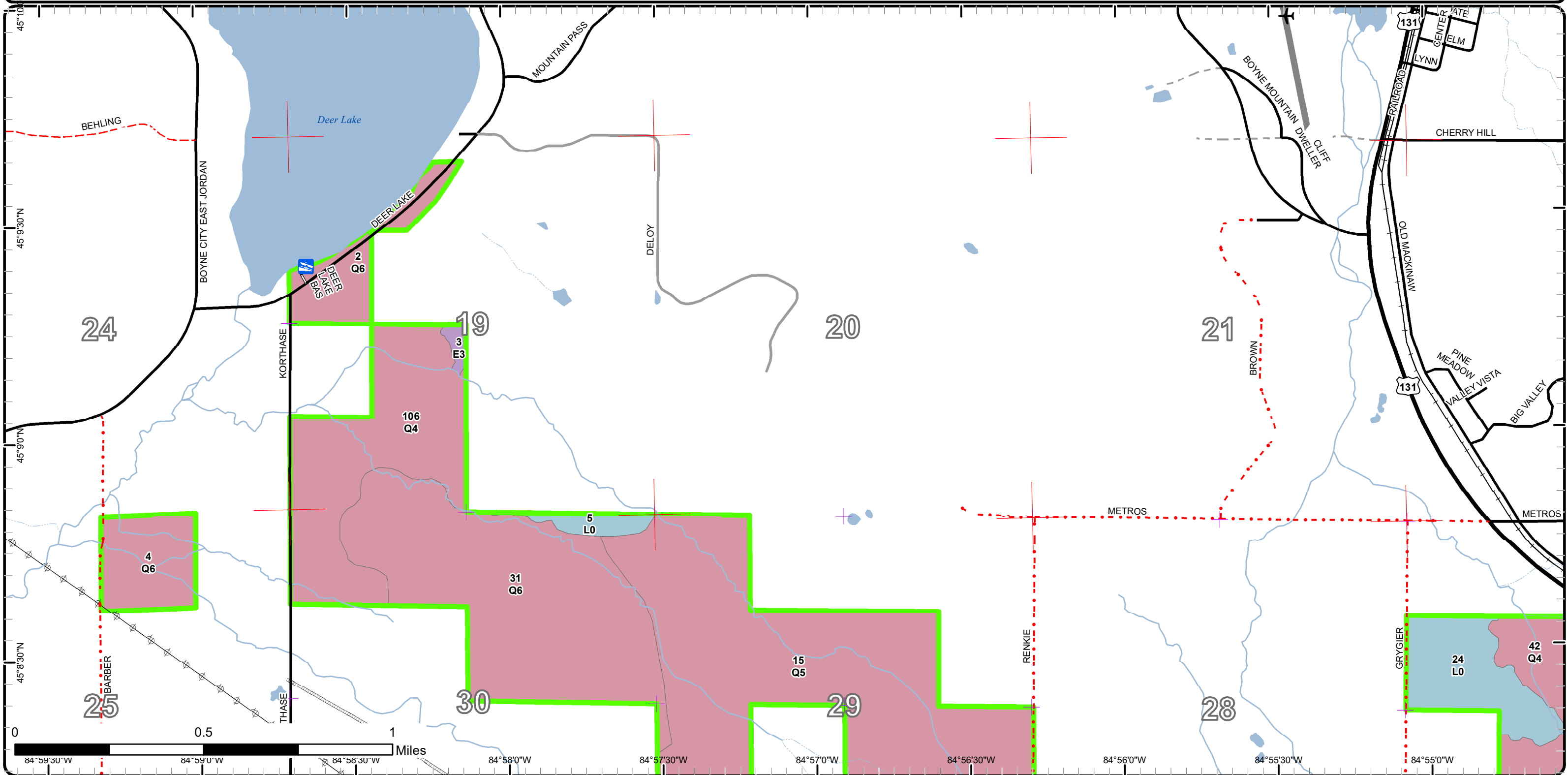


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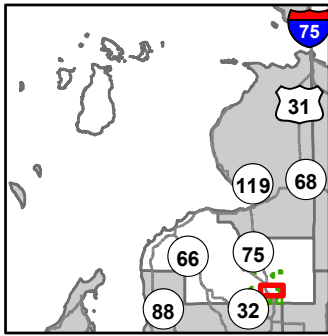


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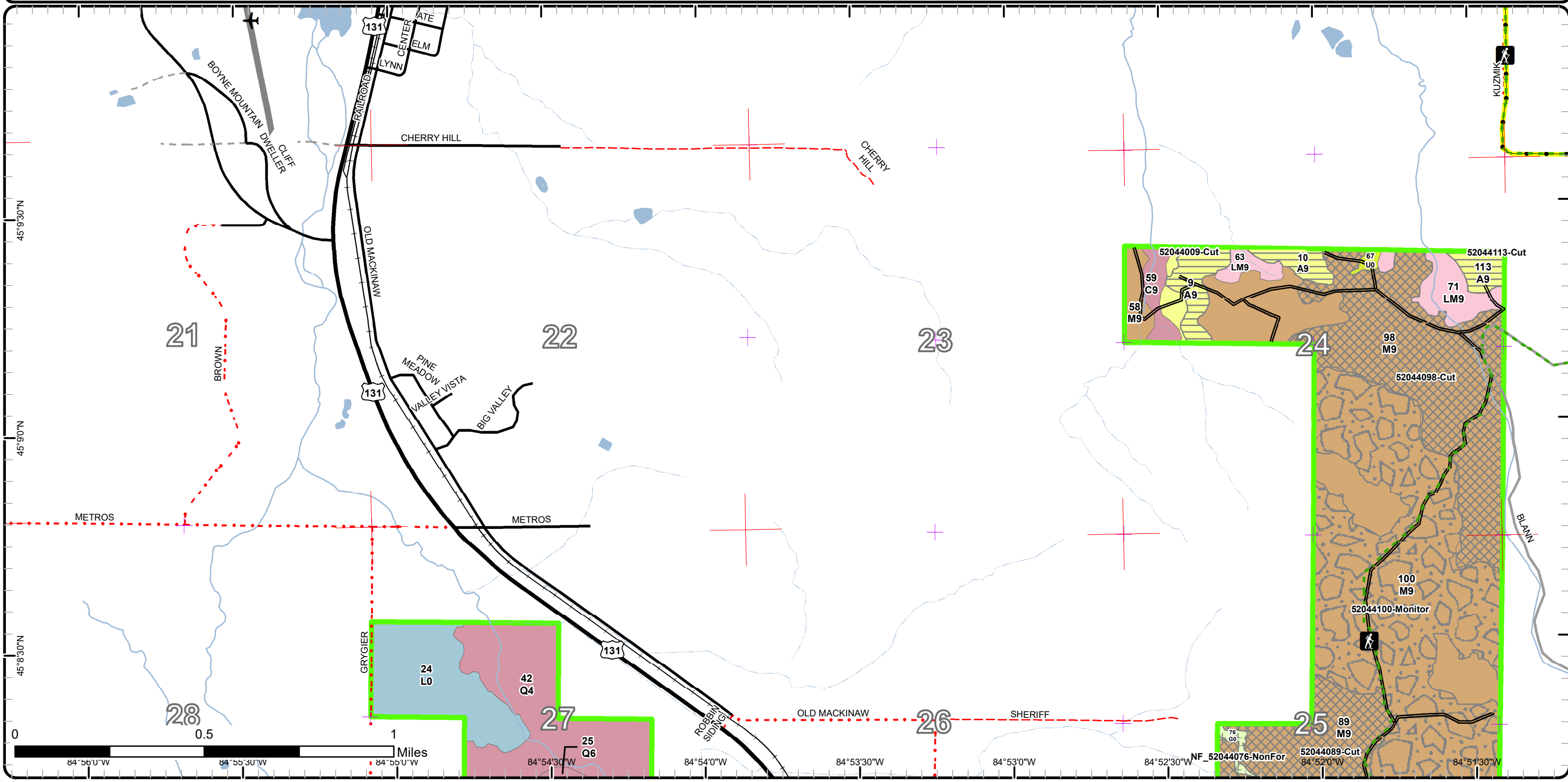


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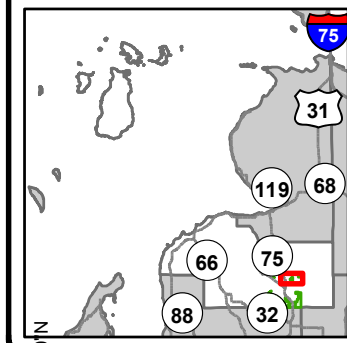


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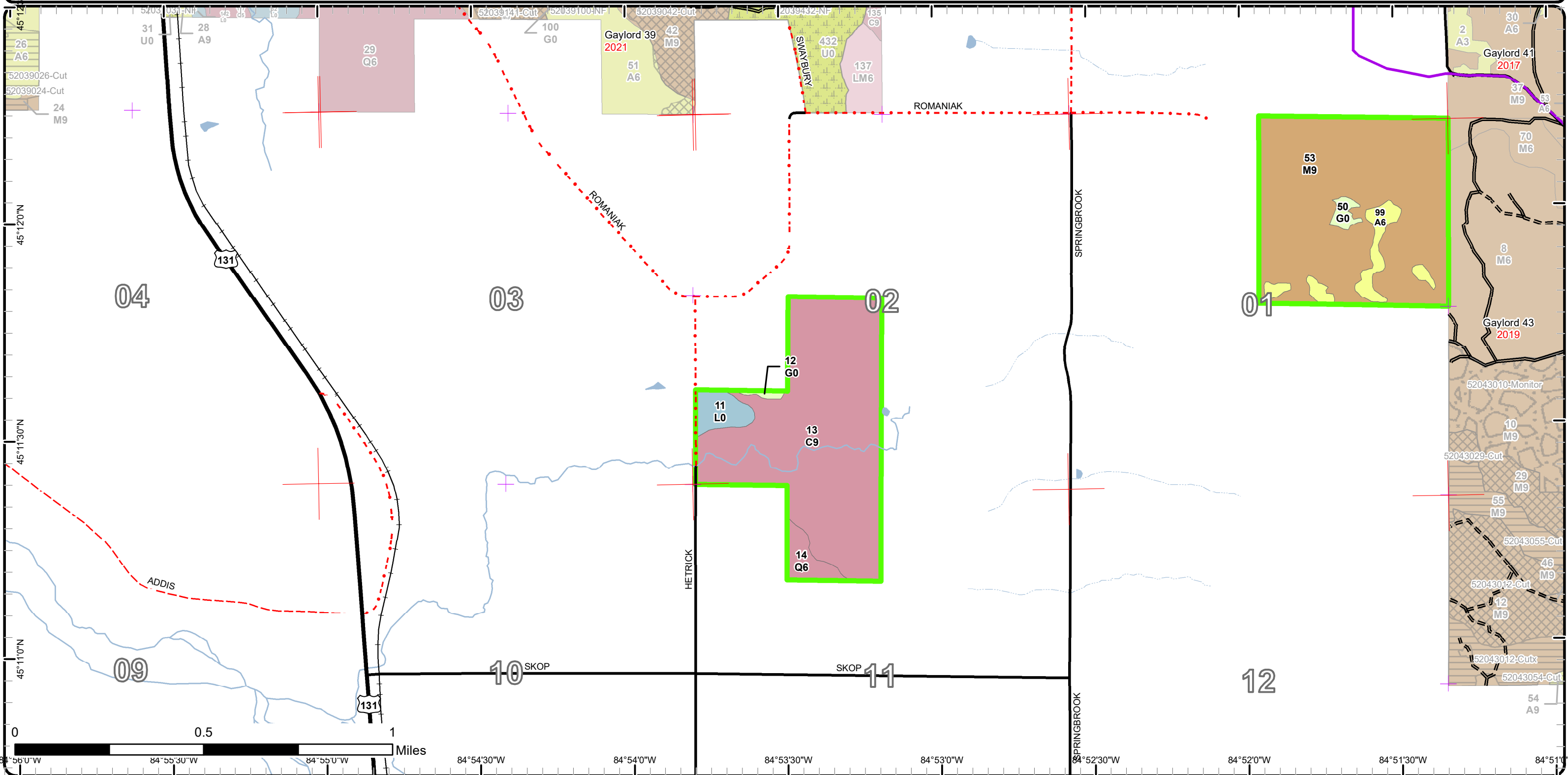


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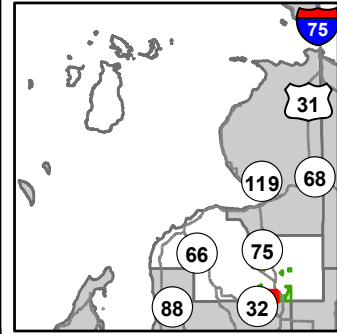


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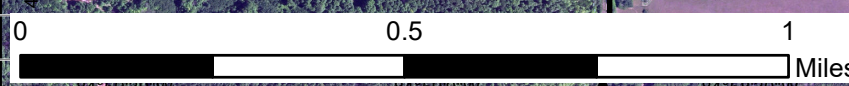
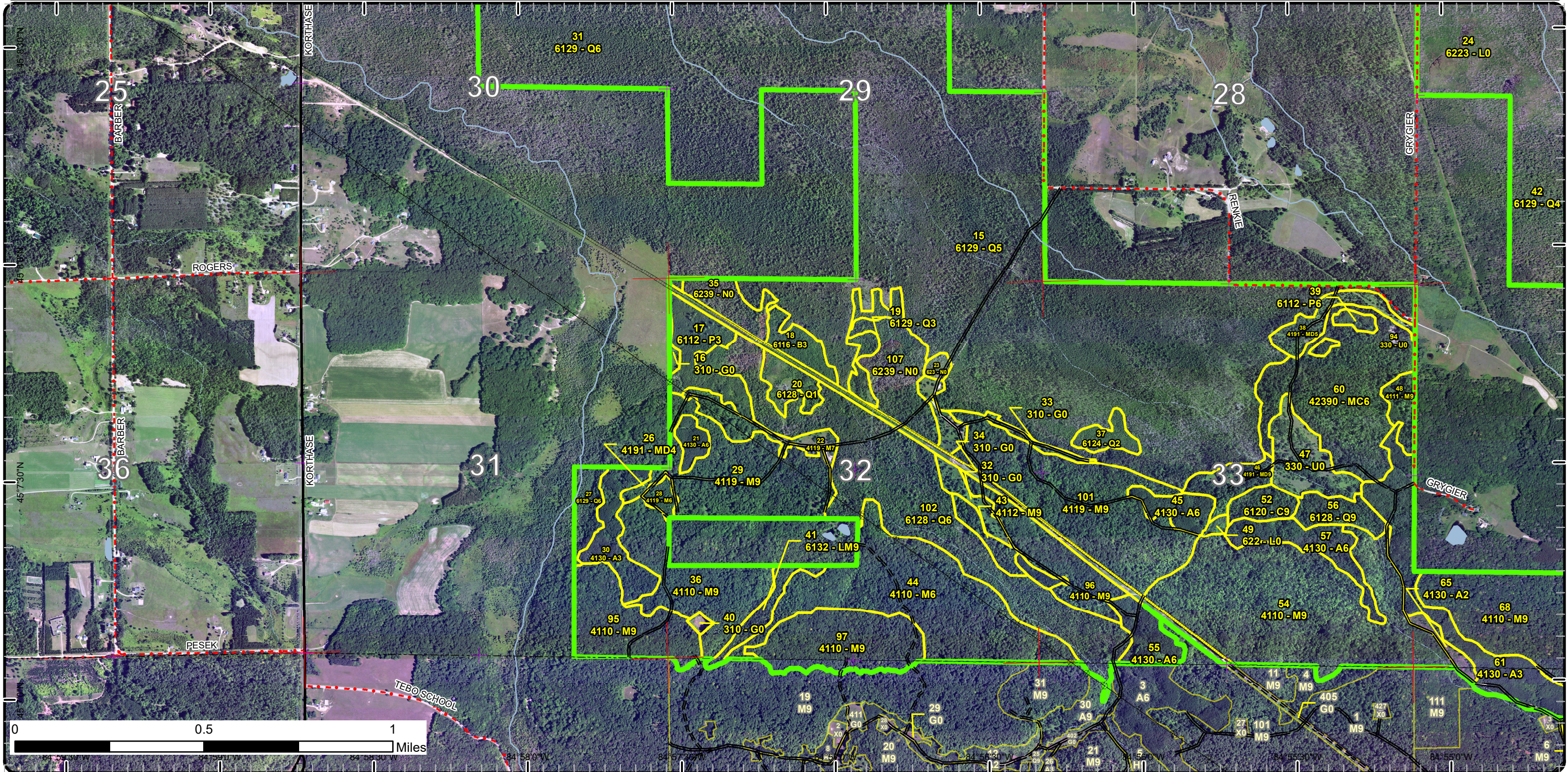


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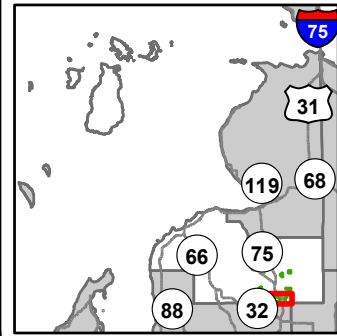


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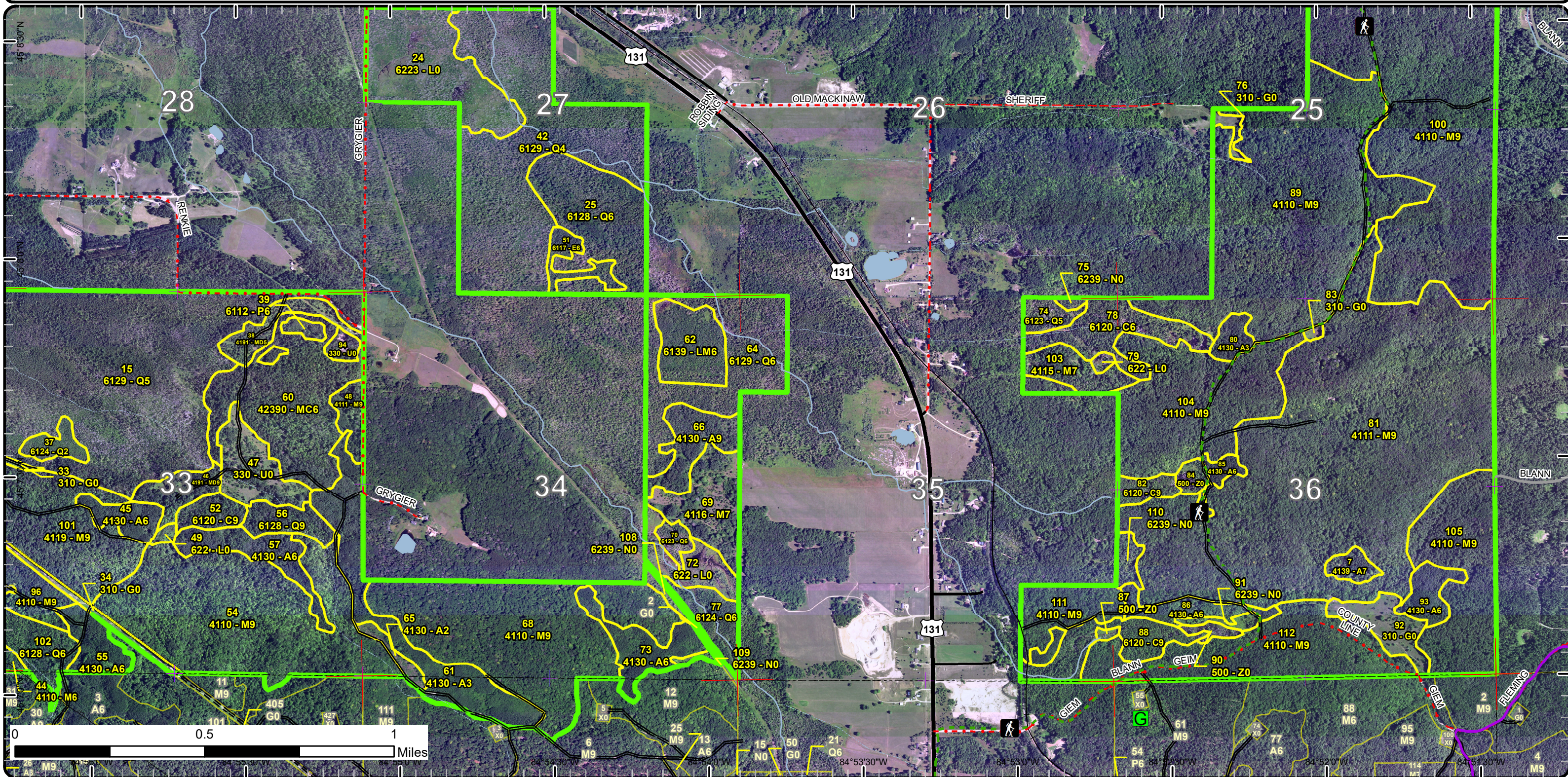


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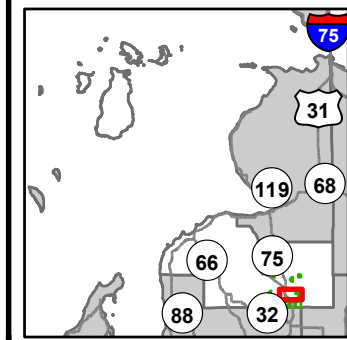


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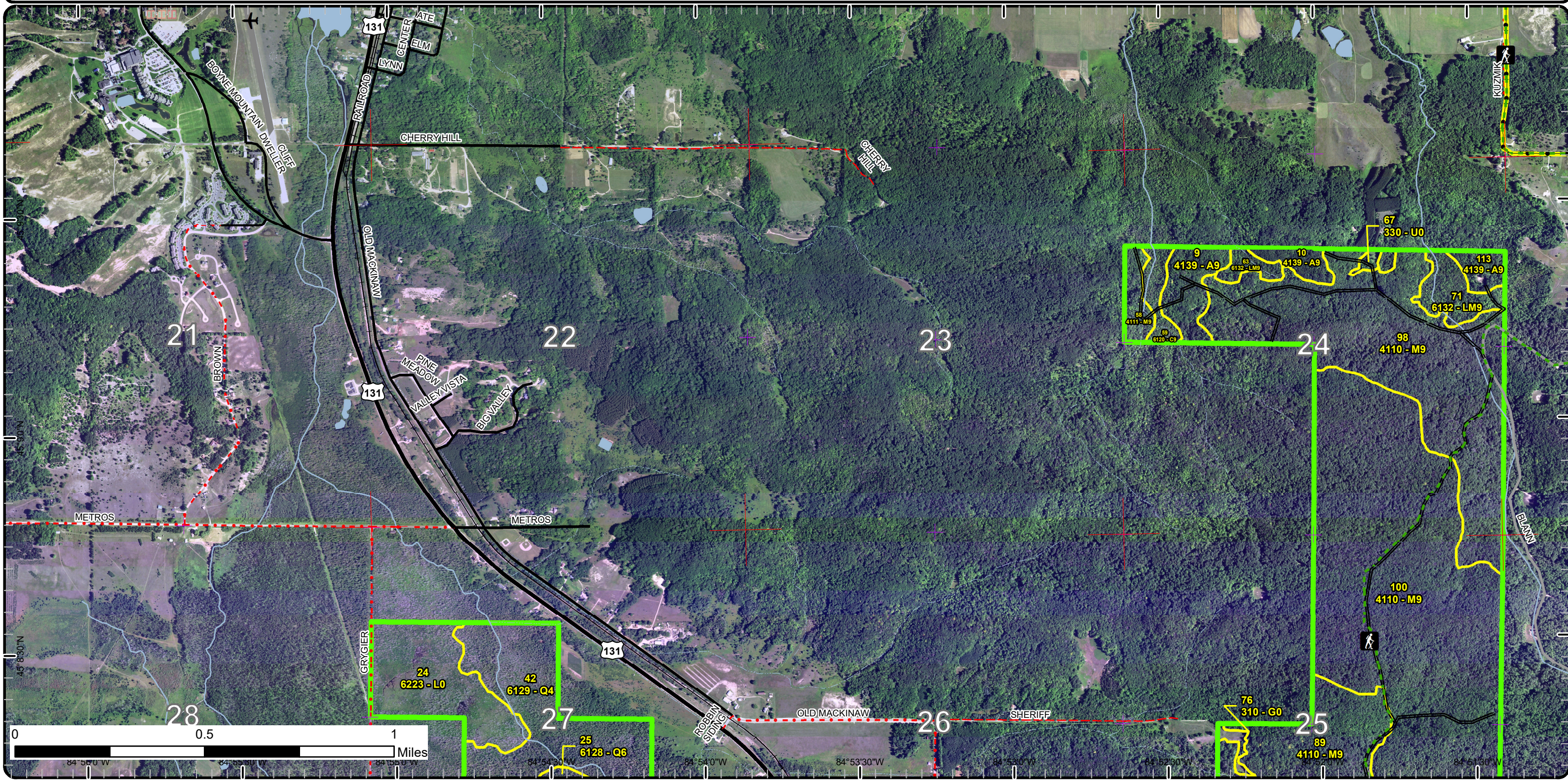


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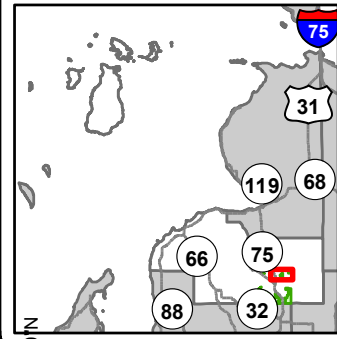


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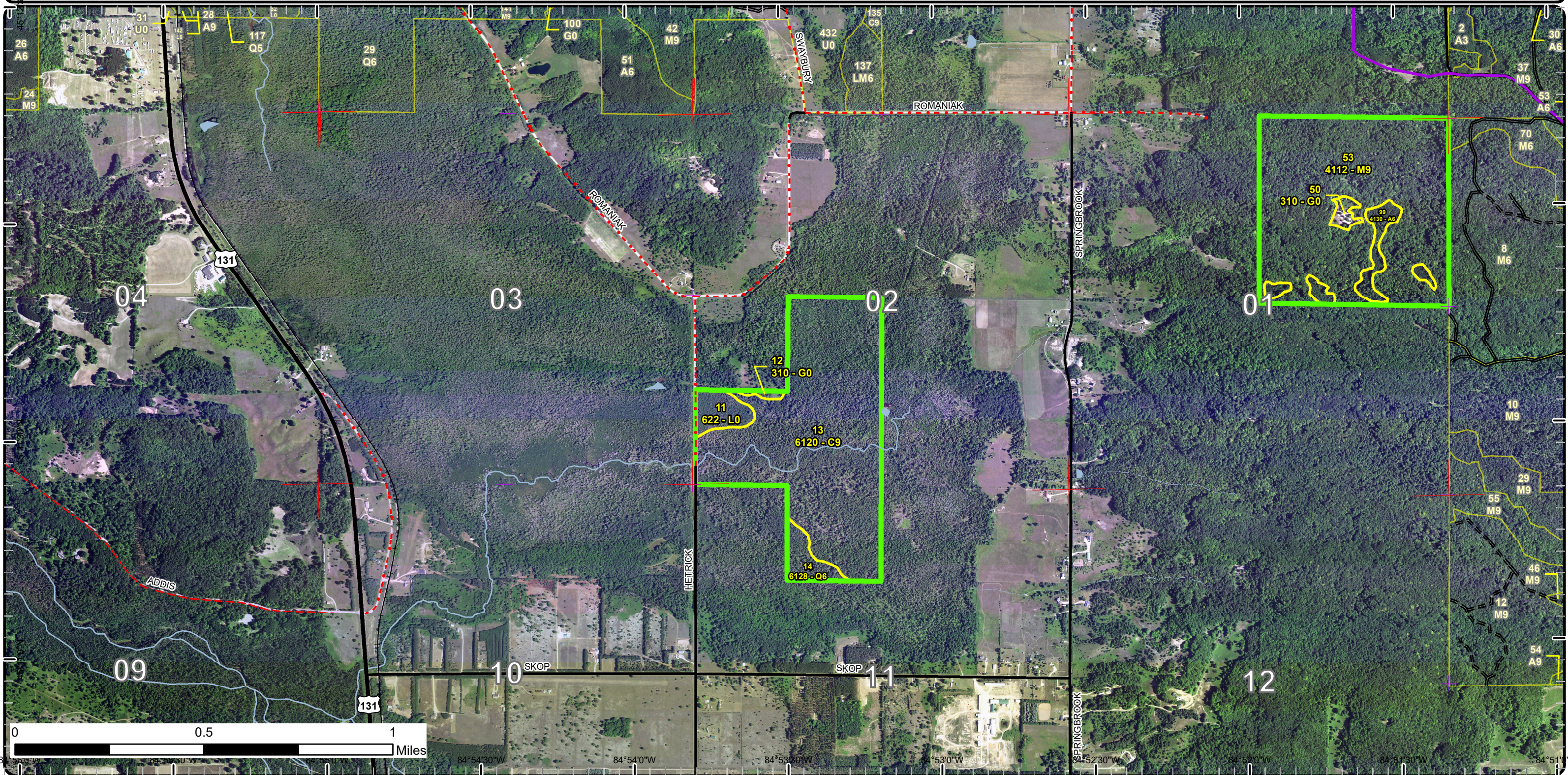


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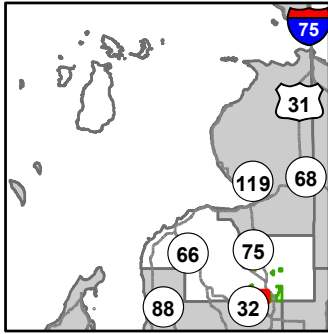


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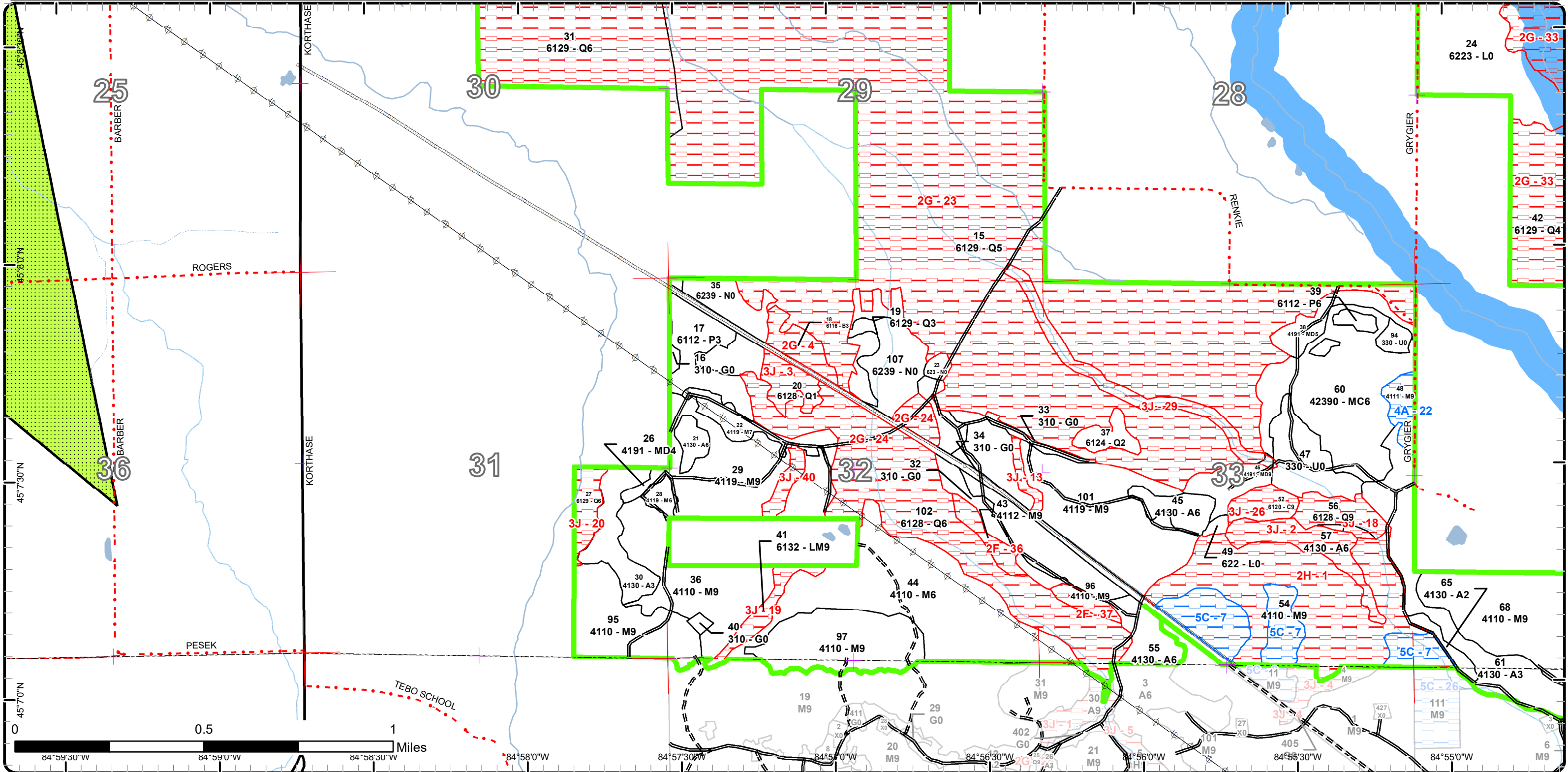


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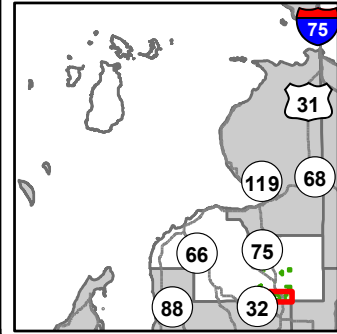


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- Available w/ Constraints
- 4A: No Markets Available for these Forest Products
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Possible Type 2 Old Growth

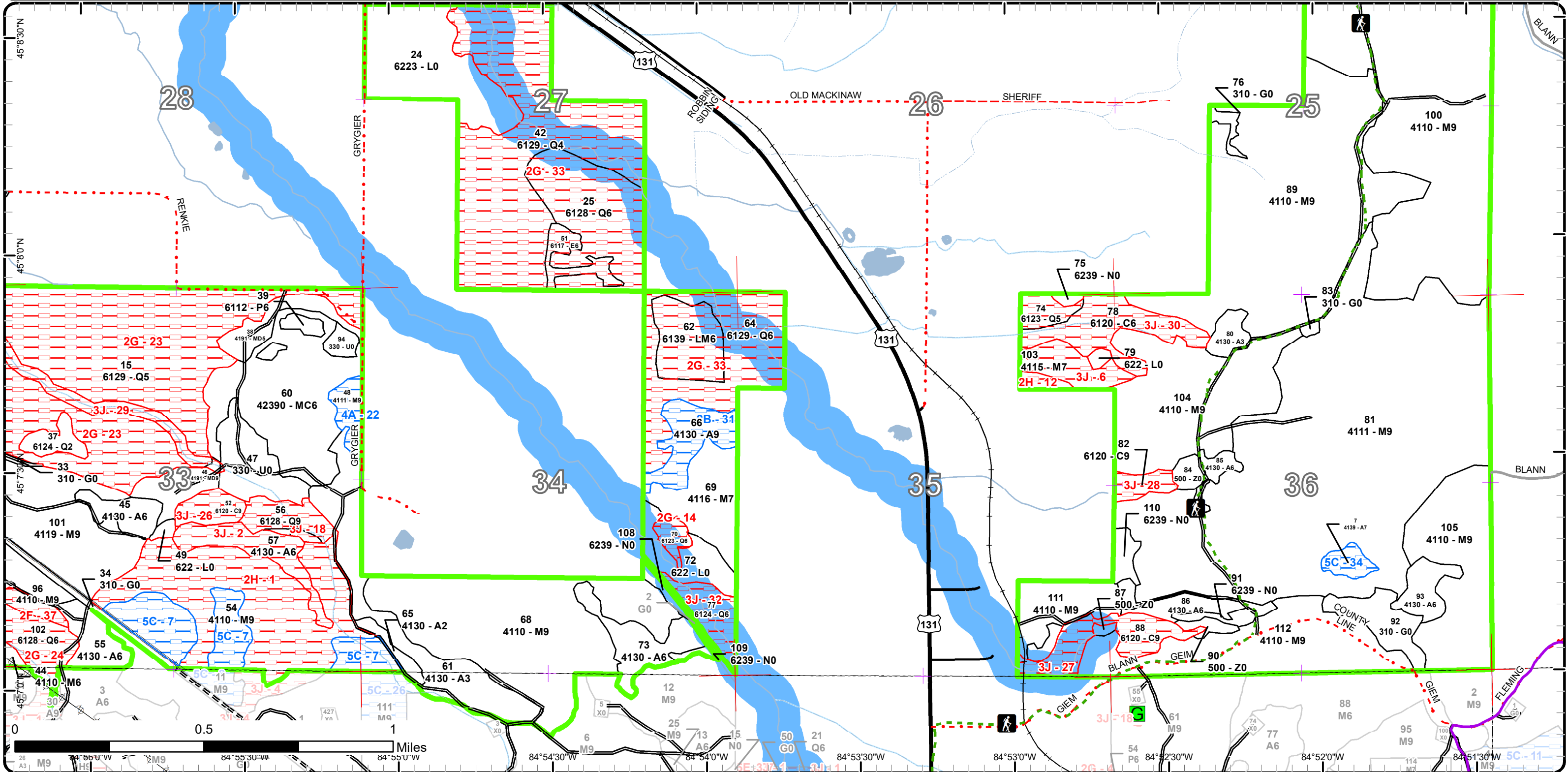


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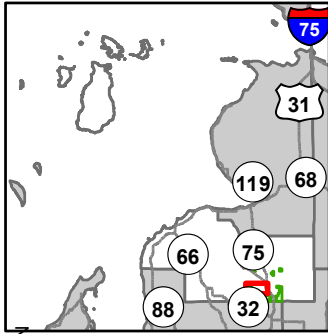


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- Available w/ Constraints
- 4A: No Markets Available for these Forest Products
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake stand)
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

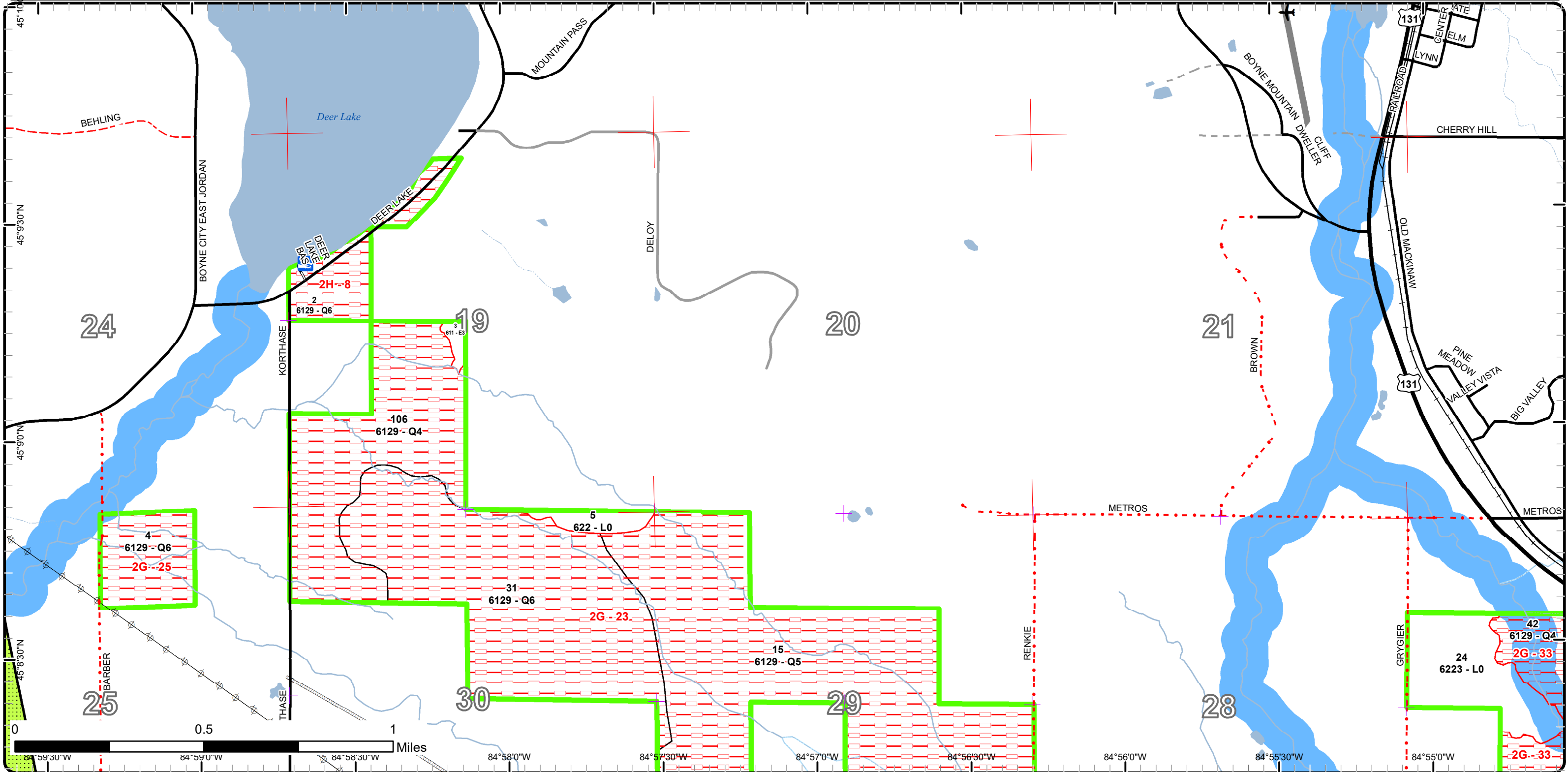


Special Conservation Areas

Compartment: 44
 T32N, R05W, Sec. 01-02, 11, 19, 24-25, 27, 29-36
 T32N, R06W, Sec. 25
 T31N, R05W, Sec. 03
 County: Charlevoix
 Unit: Gaylord
 Mgmt Area: Wolverine Moraines
 YOE: 2025
 Acres: 4430.9 GIS Calculated
 Examiner: Zach Crew
 Map Revised: 10/3/2023

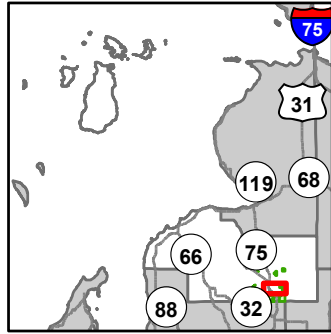


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Active Railroads
- Boating Access Site
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Airports
- Compartment Boundary
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- Stand Boundaries
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Possible Type 2 Old Growth

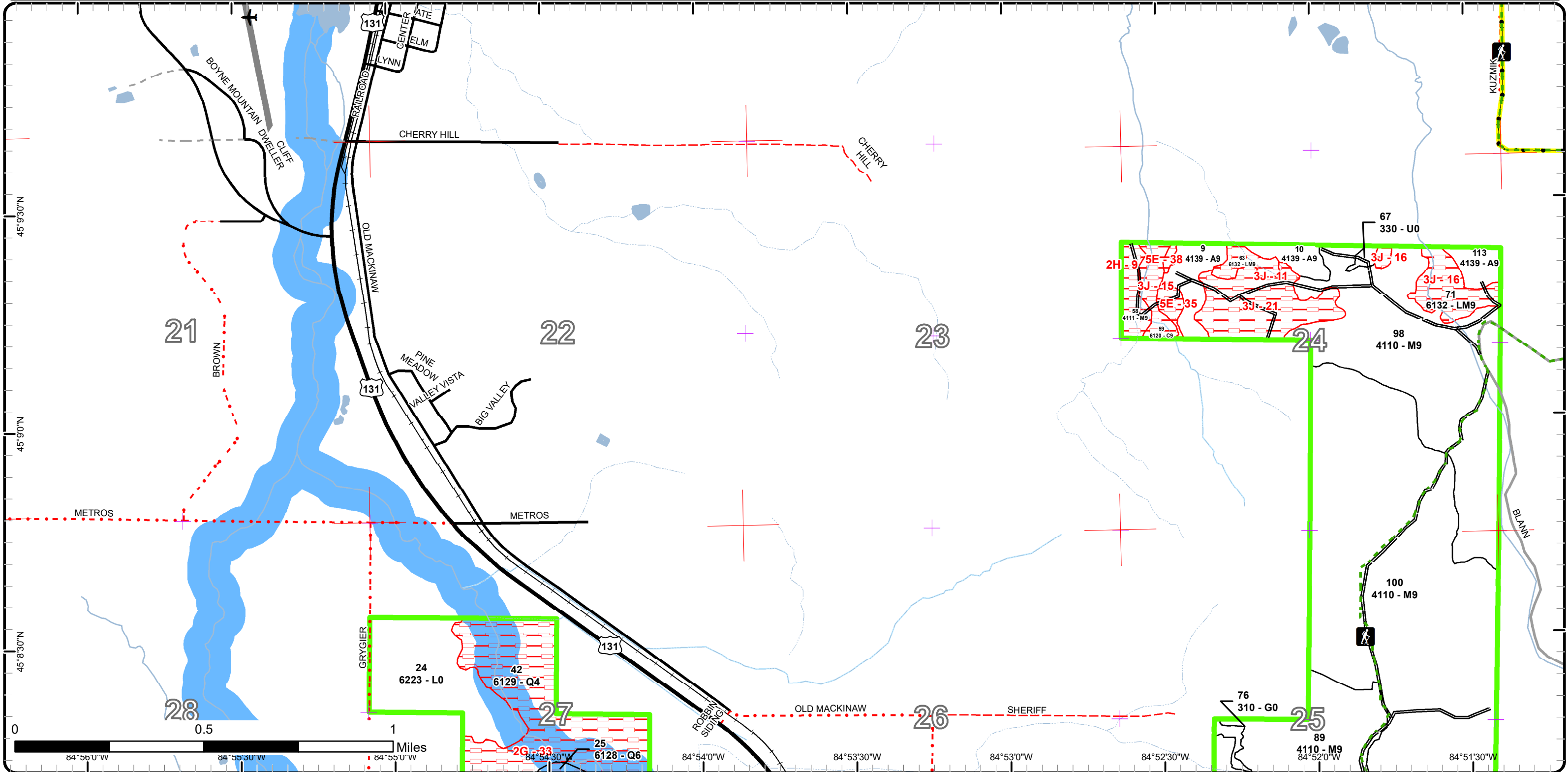


Special Conservation Areas

Compartment: 44
 T32N, R05W, Sec. 01-02, 11, 19,
 24-25,
 27, 29-36
 T32N, R06W, Sec. 25
 T31N, R05W, Sec. 03
 County: Charlevoix
 Unit: Gaylord
 Mgmt Area: Wolverine Moraines
 YOE: 2025
 Acres: 4430.9 GIS Calculated
 Examiner: Zach Crew
 Map Revised: 10/3/2023

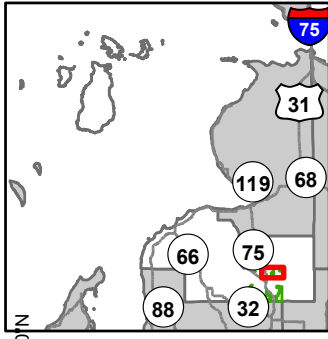


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Active Railroads
- Hiking Trails
- Designated Hiking Trails
- ORV License
- Michigan Cross Country Cycle Trail (MCCCT)
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Airports
- Compartment Boundary
- Unavailable
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)

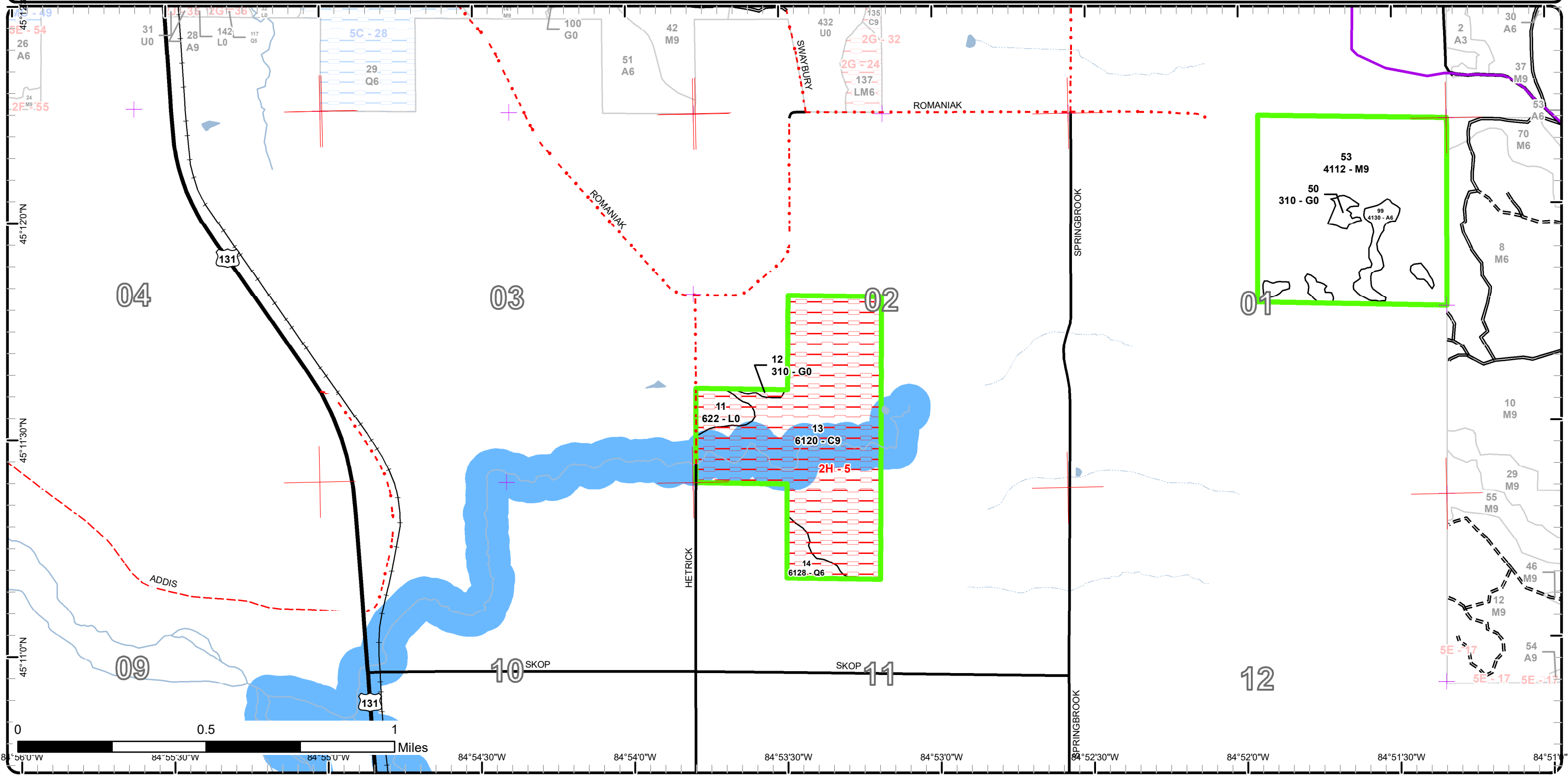


Special Conservation Areas

Compartment: 44
 T32N, R05W, Sec. 01-02, 11, 19,
 24-25,
 27, 29-36
 T32N, R06W, Sec. 25
 T31N, R05W, Sec. 03
 County: Charlevoix
 Unit: Gaylord
 Mgmt Area: Wolverine Moraines
 YOE: 2025
 Acres: 4430.9 GIS Calculated
 Examiner: Zach Crew
 Map Revised: 10/3/2023



- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Active Railroads
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Unavailable
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer



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+	Unseen-Aged	Total
Aspen	0	24	0	89	59	33	0	0	14	26	0	0	0	0	0	0	0	0	245
Cedar	0	0	0	0	0	0	0	0	0	0	42	149	21	0	0	0	0	0	212
Herbaceous Openland	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61
Low-Density Trees	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Lowland Aspen/Balsam Poplar	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Lowland Conifers	0	7	0	21	0	0	18	15	0	51	1164	213	0	0	0	0	0	0	1489
Lowland Deciduous	0	0	0	4	8	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Mixed Forest	0	0	0	0	23	0	0	0	0	26	6	0	0	0	0	0	0	0	55
Lowland Shrub	91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
Marsh	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Mixed Upland Deciduous	0	0	0	0	2	13	0	0	12	0	0	0	0	0	0	0	0	0	26
Northern Hardwood	0	0	0	0	4	0	0	0	133	1413	495	0	0	0	0	0	0	0	2045
Paper Birch	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Upland Conifers	0	0	0	0	0	0	0	0	0	0	66	0	0	0	0	0	0	0	66
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Water	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Total	245	31	0	150	96	46	18	15	159	1516	1773	362	21	0	0	0	0	0	4429



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Compartment 44

Year of Entry: 2025

Acres of Harvest

Total Compartment Acres: 4,431

Commercial Harvest - 535
 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	Oversyory Removal	Salvage	Other	Total Acres
Aspen	44	0	0	0	0	0	0	0	0	44
Northern Hardwood	0	490	0	0	0	0	0	0	0	490
Upland Conifers	2	0	0	0	0	0	0	0	0	2
Total	46	490	0	0	0	0	0	0	0	535

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	535	0	0	0	0	10	405	0	84	1034
Next Step	0	0	0	0	0	0	545	0	0	545
Total	535	0	0	0	0	10	950	0	84	1580



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

9	52044009-Cut	13.8	4139 - Aspen, Mixed Deciduous	Sawtimber Well	86	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest stand. Outside of retention mark leave trees to protect any isolated hemlock from sun scald. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> A mix of species that is at least 40% aspen that meets minimum stocking requirements. <u>Regen:</u> <u>Other</u> Retention has already been coded in MIFI. Retention exceeds 10 percent requirement, approved at pre review. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											
10	52044010-Cut	7.7	4139 - Aspen, Mixed Deciduous	Sawtimber Well	86	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest stand <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> A mix of deciduous species dominated by aspen and red maple that meets minimum stocking criteria. <u>Regen:</u> <u>Other</u> No retention due to small stand size. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											
60	52044015_Direct Cut Sale	1.9	42390 - Mixed Non-Pine Upland Conifers	Poetimber Well	93	171-200	Harvest	Clearcut with Retention	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Stand should be clearcut, leaving 6 half acre or bigger patches as retention. Also this should be a winter cut only, no exceptions, and the tops should be lopped and scattered on site. do not cut white pine or hemlock. The retention should be left in strips oriented from SW to the NE. Crane mats or a bridge will be needed to cross a small creek. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Regen should be a mix of cedar, spruce, balsam poplar, balsam fir, red maple, and birch. <u>Regen:</u> <u>Other</u> Unit was broken out of larger sale to be cut as a direct sale with a local logger since the original contract went no bid. Old next step comments: Regen survey in 10 years <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 1 /25/2017</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
94 52044015-Monitor	3.7	330 - Low-Density Trees	Nonstocked	0		Monitoring	Natural Regen (Re-Inventory)	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> A mix of cedar, balsam poplar, balsam fir, spruce, red maple, birch and hopefully a few hemlock that meets minimum stocking requirements.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
20 52044020-Spray	10.0	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Poor	25	Immature	Pesticide	Hand Application	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Apply herbicide in order to control invasive Phragmites. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Herbicide Use <u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> BMPs</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
44 52044044-Cut	88.1	4110 - Sugar Maple Association	Poletimber Well	78	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark to cut with a target residual BA of 70-90. Establish regen gaps at least 75' in diameter at a rate of 1 per 5 acres. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> A mix of sugar maple, basswood, red maple, black cherry, and/or aspen that meets minimum stocking criteria located in established regen gaps.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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86	52044086-Cut	14.5	4130 - Aspen	Poletimber Well	41	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Final harvest stand, leave all incidental conifer species.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mix of species that is at least 40% aspen and meets minimum stocking criteria.

Regen:

Other No retention due to stand size.

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

89	52044089-Cut	172.7	4110 - Sugar Maple Association	Sawtimber Well	86	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
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Prescription Mark to cut stand with a residual BA target of 70-90. Establish regen gaps at least 75' in diameter at a rate of 1 per 5 acres.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mix that includes sugar maple, basswood, red maple, and aspen that meets minimum stocking criteria.

Regen:

Other Include appropriate trail protection specs, Note archeological comments in the compartment folder and establish appropriate buffers.

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

95	52044095- Monitor	30.2	4110 - Sugar Maple Association	Sawtimber Well	94	81-110	Monitoring	Natural Regen (Intermediate)	4110 - Sugar Maple Association	Uneven- Aged	No
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Prescription Natural Regen Check of gaps

Specs:

Next Step

Treatments:

Acceptable Any mix of dominant canopy species that results in a well stocked stand.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2027

96	52044096- Monitor	22.1	4110 - Sugar Maple Association	Sawtimber Well	96	51-80	Monitoring	Natural Regen (Intermediate)	4110 - Sugar Maple Association	Uneven- Aged	No
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Prescription Natural regen check on canopy gaps

Specs:

Next Step

Treatments:

Acceptable A mix of dominant canopy species that result in a well stocked stand.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2027

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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
97 52044097-Monitor	39.2	4110 - Sugar Maple Association	Sawtimber Well	86	81-110	Monitoring	Natural Regen (Intermediate)	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> Natural Regen Check on Gaps <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Any mix of dominant canopy species that results in a well stocked stand. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2027</p>										
98 52044098-Cut	128.9	4110 - Sugar Maple Association	Sawtimber Well	92	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Mark to cut, target a residual BA of 70-90. Establish regen gaps at least 75' in diameter at a rate of 1 per 5 acres. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> A mix of species that includes; Sugar Maple, Basswood, Red Maple, and Aspen that meets minimum stocking criteria. <u>Regen:</u> <u>Other</u> Avoid cutting or damaging incidental species such as yellow birch and hemlock if possible. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>										
100 52044100-Monitor	288.5	4110 - Sugar Maple Association	Sawtimber Well	86	81-110	Monitoring	Natural Regen (Intermediate)	4111 - S.Maple, Hard Mast Association	Uneven-Aged	No
<p><u>Prescription</u> Natural Regen Check on Gaps <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Any mix of species that are representative of the parent canopy and that results in a well stocked regen gap. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2027</p>										
104 52044104-Cut	78.4	4110 - Sugar Maple Association	Sawtimber Well	86	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Mark to cut with a target residual BA of 70-90. Establish regen gaps at least 75' in diameter at a rate of 1 per 5 acres. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> A mix of species that includes sugar maple, red maple, basswood, and aspen that meets minimum stocking requirements <u>Regen:</u> <u>Other</u> Include appropriate trail protection specs, Note archeological comments in the compartment folder and establish appropriate buffers. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</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
111 52044111-Cut	21.5	4110 - Sugar Maple Association	Sawtimber Well	86	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Mark to cut stand with a target residual BA of 70-90. Establish 3 regen gaps in the stand around pockets that have aspen as one of the species. These gaps should try to include areas that are 40% or greater in aspen.</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> A mix of species that includes sugar maple, red maple, basswood, and aspen that meets minimum stocking criteria.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
112 52044112-Monitor	21.4	4110 - Sugar Maple Association	Sawtimber Well	86	81-110	Monitoring	Natural Regen (Intermediate)	411 - S.Maple, Hard Mast Association	Uneven-Aged	No
<p><u>Prescription</u> Monitor regen success, be sure to keep an eye on the 2 acre gap in the SE corner of the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A mix of dominant canopy species that results in a well stocked stand.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2027</p>										
113 52044113-Cut	7.8	4139 - Aspen, Mixed Deciduous	Sawtimber Well	75	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest stand, do not cut Oak or Hemlock. Mark leave trees around isolated hemlock to protect from sun scald.</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> A mix of deciduous species that is at least 40% aspen that meets minimum stocking requirements.</p> <p><u>Regen:</u></p> <p><u>Other</u> No retention due to small stand size.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
22 NF_52044022-NonFor	13.1	4119 - Mixed Northern Hardwoods	Sawtimber Poor	96	1-50	NonForestMgt	Other - Specify	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Opening Maintenance</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 12/30/1899</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
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32	NF_52044032-NonFor	13.9	310 - Herbaceous Openland	Nonstocked		Immature	NonForestMgt	Other - Specify	3105 - Mixed Upland Herbaceous	No
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Prescription Opening Maintenance

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 12/30/1899

33	NF_52044033-NonFor	3.4	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Other - Specify	3105 - Mixed Upland Herbaceous	No
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Prescription Opening Maintenance

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 12/30/1899

38	NF_52044038-NonFor	12.5	4191 - Mixed Upland Deciduous with Conifer	Poetimber Medium	48	1-50	NonForestMgt	Other - Specify	3105 - Mixed Upland Herbaceous	No
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Prescription Opening Maintenance

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 12/30/1899



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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
47 NF_52044047-NonFor	21.9	330 - Low-Density Trees	Nonstocked			NonForestMgt	Other - Specify	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Opening Maintenance <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 12/30/1899</p>										
76 NF_52044076-NonFor	2.8	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Other - Specify	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Opening maintenance <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2014</p>										
83 NF_52044083-NonFor	1.0	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Other - Specify	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Opening maintenance <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 12/30/1899</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
92 NF_52044092-NonFor	15.2	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Other - Specify	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Opening maintenance</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 12/30/1899</p>										

Total Treatment Acreage Proposed: 1034.2

Report 4 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment: 44
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail			Dominant Site Conditions									
		With Condition	Not Available		2B	4A	5C	2F	2G	2H	3D	3J	5E	
245	197	24	23	Aspen	19		6						19	5
212	0	0	212	Cedar								140		72
61	60	0	1	Herbaceous Openland								1		
27	27	0	0	Low-Density Trees										0
26	26	0	0	Lowland Aspen/Balsam Poplar										
1489	18	0	1472	Lowland Conifers					1,359	44			68	
12	4	0	8	Lowland Deciduous					8					
54	0	0	54	Lowland Mixed Forest					23				32	
91	82	0	9	Lowland Shrub						9				
57	57	0	0	Marsh										
27	26	0	1	Mixed Upland Deciduous									1	
1984	1768	45	171	Northern Hardwood		8	37	12		99	3		57	
10	0	0	10	Paper Birch					10					
66	66	0	0	Upland Conifers										
0	0	0	0	Urban										
8	8	0	0	Water									0	
4,370	2,339	69	1,962	Total Forested Acres	19	8	43	12	1,400	293	3	249	5	
	54%	2%	45%	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 Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	86	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Majority of stand blocked from access by multiple creeks and steep hills.							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment: 44
Year of Entry: 2025

2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	2D: Portable Bridge Needed (Dept. bridge will be adequate)	Unspecified	Unspecified	Unspecified
Comments: Several areas (~1/3 of the stand) left untreated due to creeks and wet areas. Entire stand falls within no clearcutting buffers for defined streams.							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	158	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Multiple lowland seeps and creeks flowing into the creek to the north that divide up all the upland ridges in this stand.							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments: These portions of stand 54 could potentially be harvested with adjacent timber to the south. Re check during inventory cycle for adjacent compartments.							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment: 44
Year of Entry: 2025

8	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	36	2B: Unknown if access through adjacent landowner(s) is possible	2E: Road needed	Unspecified	Unspecified
Comments:							
9	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	10	3J: Water quality / BMPs (stream, river, or lake)	2D: Portable Bridge Needed (Dept. bridge will be adequate)	Unspecified	Unspecified
Comments:							
10	Unavailable	3D: Recreational / Scenic values	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small portion of stand blocked by lowland swamp and private access.							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment: 44
Year of Entry: 2025

14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	3J: Water quality / BMPs (stream, river, or lake)	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified
Comments:							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment: 44
Year of Entry: 2025

21	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Multiple seeps come out of the hillside and flow down to the north							
22	Available	4A: No Markets Available for these Forest Products	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand too small to sell commercially, attempted last YOE to sell as a firewood sale and cut didn't get finished. Will probably have to leave until adjacent stands are ready for harvest.							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	976	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Lots of flooding from beaver activity and large amounts of many braided streams plus a lack of access make harvesting in this stand impractical if not impossible.							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	109	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Large drainage between two ridgelines that flows from SE to the NW, too wet to harvest.							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	40	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment: 44
Year of Entry: 2025

27	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	2E: Road needed	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
Comments:							
30	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Available	2B: Unknown if access through adjacent landowner(s) is possible	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Have sent out access letters to adjacent landowners but no reply as of this time.							
32	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	13	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: The South Branch of the Boyne River runs through this stand							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment: 44
Year of Entry: 2025

33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	261	3J: Water quality / BMPs (stream, river, or lake)	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified
Comments: These stands in this are are typically too wet to harvest. There are also multiple streams throughout the stands that would limit harvesting and trucking abilities. Any portions of these stands that have been harvested in the past were all done by hand with minimal heavy equipment, unlikely current equipment would be able to successfully harvest these lowland types.							
34	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay treatment of this stand until surrounding hardwood and aspen is ready for harvest.							
35	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	2F: Too steep	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment: 44
Year of Entry: 2025

40	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer for small perennial stream							

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
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1	4111 - S.Maple, Hard Mast Association	Sawtimber Well	3.2	85	81-110	N/A	hardwood stand along river giving access to it, signs posted stating no camping, those should removed, possible disposal parcel?
Canopy Species		% Cover	Size Class	DBH	Age		
Beech	15	Pole/Log	10				
Red Maple	15	Log/Pole	12				
Yellow Birch	5	Pole/Log	10				
Basswood	25	Log/Pole	12				
Sugar Maple	40	Log/Pole	12	85			

2	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	36.1	103	81-110	N/A	Mixed lowland stand with cedar and black ash, Boating Access in stand but not large enough to be broken out as a non forested stand, adjacent to deer lake and lots of streams. NE corner there is small upland section (smaller than 2 acres) with some hemlock, white pine, red maple, and similar species to the lowland portion of the stand.
Canopy Species		% Cover	Size Class	DBH	Age		
Northern White Cedar	42	Pole/Log/Sap	7	103			
Balsam Poplar	5	Log/Pole	12				
Balsam Fir	30	Pole	8				
Black Spruce	10	Pole/Log	9				
Quaking Aspen	5	Log/Pole	12				
Black Ash	3	Pole	8				
Paper Birch	5	Log/Pole	10				
Sub-Canopy Species		Density	Avg. Height	Size			
Balsam Fir	Medium	< 5 feet	Sapling				
Northern White Cedar	Trace	< 5 feet	Sapling				
Black Spruce	Trace	< 5 feet	Sapling				
Red Maple	Low	5 - 10 feet	Sapling				

3	611 - Lowland Deciduous Forest	Sapling Well	3.6	20	Immature	N/A	From the history of aerial imagery we have on file it looks to be a former beaver flooding that is starting to fill in with various deciduous species, doesn't look to be any conifer in the stand.
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4	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	40.1	82	51-80	N/A	Very wet, lots of streams and creeks, scattered super canopy white pine. South of the creek is a slightly higher and drier ridge. North of the creek is very wet where most of the tag alder occurs.
Canopy Species		% Cover	Size Class	DBH	Age		
Tamarack	20	Log/Pole	10				
White Pine	2	Log/XLog	14				
Balsam Poplar	10	Pole	6				
Balsam Fir	15	Pole/Sapling	6				
Black Spruce	13	Pole/Log	9				
Northern White Cedar	40	Pole/Log	9	82			
Sub-Canopy Species		Density	Avg. Height	Size			
Balsam Fir	Low	< 5 feet	Sapling				
Tag Alder	Low	5 - 10 feet	Tall Shrub				

5	622 - Lowland Shrub	Nonstocked	10.0			No	
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7	4139 - Aspen, Mixed Deciduous	Sawtimber Poor	5.5	71	1-50	N/A	Sparse south facing slope with a lot juneberry coming in.
Canopy Species		% Cover	Size Class	DBH	Age		
Bigtooth Aspen	33	Log	12	71			
Quaking Aspen	10	Log	12				
Black Cherry	20	Pole/Log	9				
Beech	7	Log/Pole	10				
Red Maple	30	Pole/Log	9				
Sub-Canopy Species		Density	Avg. Height	Size			
Beech	Low	5 - 10 feet	Sapling				
Ironwood	Low	5 - 10 feet	Sapling				
Sugar Maple	Low	5 - 10 feet	Sapling				
Serviceberry (Juneberry)	Medium	10 - 20 feet	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
8	122 - Road/Parking Lot	Nonstocked	0.5		Unspecified	No	Currently listed as a disposal through 2023 parcel review.

9	4139 - Aspen, Mixed Deciduous	Sawtimber Well	18.6	86	111-140	N/A	Aspen concentrated in the south, starts to fall out towards the north part of the stand, small inclusion dominated by hemlock in the SW.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	7	Log/Pole	10		Ironwood	Low	5 - 10 feet	Sapling
Bigtooth Aspen	40	Log	13	86	Sugar Maple	Low	5 - 10 feet	Sapling
Ironwood	5	Pole	7		Beech	Low	5 - 10 feet	Sapling
Hemlock	3	Log/Pole	10					
Basswood	10	Log/Pole	10					
Red Maple	13	Log/Pole	11					
Sugar Maple	22	Pole/Log	8					

10	4139 - Aspen, Mixed Deciduous	Sawtimber Well	7.7	86	81-110	N/A	Small stand of big tooth aspen clones.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Log/Pole	11		Ironwood	Low	5 - 10 feet	Sapling
Basswood	5	Log/Pole	10		Sugar Maple	Low	5 - 10 feet	Sapling
Beech	7	Log/Pole	10		Beech	Low	5 - 10 feet	Sapling
Sugar Maple	10	Pole/Log	8					
Bigtooth Aspen	58	Log	13	86				

11	622 - Lowland Shrub	Nonstocked	8.8			No	
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12	310 - Herbaceous Openland	Nonstocked	1.2			No	
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13	6120 - Lowland Cedar	Sawtimber Well	140.1	100	141-170	N/A	Lots of blowdown in the south, flooding in the west by the road. Areas with blowdown lots of tag and balsam fir regen. Tamarack located in these along wet road edge.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	66	Log/Pole	10	100	Tag Alder	Low	5 - 10 feet	Tall Shrub
White Pine	3	Log/XLog	16		Balsam Fir	Low	5 - 10 feet	Sapling
Tamarack	3	Log/Pole	10		Black Spruce	Trace	< 5 feet	Sapling
Black Spruce	15	Log/XLog/Pole	14		Northern White Cedar	Trace	< 5 feet	Sapling
Red Maple	3	Log/Pole	10		White Pine	Trace	< 5 feet	Sapling
Paper Birch	5	Pole/Log	8					
Balsam Poplar	5	Log	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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14 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 8.1 65 51-80 N/A Similar to stand 13 except it seems to be younger (BAM and Aspen falling out, cedar starting to take over)

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Log	8	
Balsam Poplar	10	Log	12	
Black Spruce	15	Pole/Log	8	
Balsam Fir	20	Pole	6	
Northern White Cedar	40	Pole	7	65
Quaking Aspen	5	Log	11	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	< 5 feet	Sapling
Balsam Fir	Low	< 5 feet	Sapling
Northern White Cedar	Trace	< 5 feet	Sapling
Black Spruce	Trace	< 5 feet	Sapling

15 6129 - Mixed Coniferous Lowland Forest Poletimber Medium 666.7 94 51-80 N/A From aerial imagery and edge checks, beaver activity has steadily increased in this stand in the last 10 years, flooding a lot of areas and causing a lot of tree mortality. Very high water table has contributed to blowdown and tree mortality as well. Excellent regen in the sapling size class.

Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	15	Pole/Log	9	
Paper Birch	1	Pole/Log	9	
Red Maple	1	Pole/Log	8	
Balsam Poplar	1	Pole/Log	9	
Balsam Fir	20	Pole	7	
Northern White Cedar	31	Pole/Log	8	94
White Pine	6	Log/XLog	14	
Black Spruce	25	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	5 - 10 feet	Sapling
White Pine	Low	Variable	Sapling
Black Spruce	Low	5 - 10 feet	Sapling
Northern White Cedar	Medium	Variable	Sapling
Red Maple	Trace	5 - 10 feet	Sapling

16 310 - Herbaceous Openland Nonstocked 1.4 No Edge of a field

17 6112 - Lowland Aspen Sapling Well 22.0 23 1-50 N/A Aspen clear cut, a few scattered super canopy white pine were left

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	71	Sapling/Pole	4	23
Paper Birch	10	Sapling	2	
Balsam Fir	15	Sapling	2	
Black Cherry	2	Sapling/Pole	3	
Red Maple	2	Sapling/Pole	3	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	Sapling
Northern White Cedar	Trace	< 5 feet	Sapling
Black Spruce	Trace	< 5 feet	Sapling

18 6116 - Lowland Birch Sapling Well 9.9 26 Immature N/A interesting mix of regenerating species, almost a pure birch stand

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	15	Sapling	2	
Balsam Poplar	10	Sapling/Pole	3	
Paper Birch	70	Sapling	2	26
Balsam Fir	5	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Trace	5 - 10 feet	Sapling
Balsam Fir	Trace	< 5 feet	Sapling
Black Spruce	Trace	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
19	6129 - Mixed Coniferous Lowland Forest	Sapling Well	10.6	25	Immature	N/A	Stand was harvested in 1988 as well as 1997. There were some strip cuts on the north end and a larger clearcut area in the south. Swamp conifer regen is very good throughout, concerns with beaver activity. Portion of harvested area now a beaver flooding with no live trees, broken out to create new stand.																																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Paper Birch</td> <td>5</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>15</td> <td>Sapling</td> <td>3</td> <td>25</td> </tr> <tr> <td>Tamarack</td> <td>30</td> <td>Sapling/Pole</td> <td>4</td> <td>25</td> </tr> <tr> <td>Black Spruce</td> <td>20</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>25</td> <td>Sapling</td> <td>2</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Paper Birch	5	Sapling/Pole	3		White Pine	5	Pole	8		Balsam Fir	15	Sapling	3	25	Tamarack	30	Sapling/Pole	4	25	Black Spruce	20	Sapling/Pole	3		Northern White Cedar	25	Sapling	2																									
Canopy Species	% Cover	Size Class	DBH	Age																																																									
Paper Birch	5	Sapling/Pole	3																																																										
White Pine	5	Pole	8																																																										
Balsam Fir	15	Sapling	3	25																																																									
Tamarack	30	Sapling/Pole	4	25																																																									
Black Spruce	20	Sapling/Pole	3																																																										
Northern White Cedar	25	Sapling	2																																																										
20	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Poor	10.0	25	Immature	N/A	Cedar/fir/spruce starting to to seed in, the area looks like it was previously flooded, possibly due to beaver activity, lots of small creeks																																																						
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Canopy Species	% Cover	Size Class	DBH	Age																																																									
Northern White Cedar	25	Sapling	2	25																																																									
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21	4130 - Aspen	Poletimber Well	5.6	23	1-50	N/A	regenerating aspen clear cut, there is a decent amount of other mixed hardwood species present																																																						
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22	4119 - Mixed Northern Hardwoods	Sawtimber Poor	13.1	96	1-50	N/A	Transitional stand, mostly open grown red maple and cherry. A variety of species present.																																																						
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23	623 - Emergent Wetland	Nonstocked	2.4			No	Older beaver flooding starting to fill in with grasses and such.																																																						
24	6223 - Inundated Shrub Swamp	Nonstocked	52.8			No	Some pockets of open water due to beaver dams. Heavy tree mortality except on the edges along Grygier Road. Mostly lowland shrubs coming back.																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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25 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 49.3 104 81-110 N/A Mixed swamp conifer, some areas of blown down and high water table. A couple dry ridges throughout dominated by red maple.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	11	Pole/Log/Sap	8	
Black Ash	5	Pole/Sapling	7	
Red Maple	12	Log/Pole/Sap	11	
Northern White Cedar	40	Log/Pole	12	104
Balsam Fir	25	Pole/Log	9	
White Pine	2	Log	12	
Paper Birch	5	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Striped Maple	Low	5 - 10 feet	Sapling
Balsam Fir	Medium	5 - 10 feet	Sapling
Black Ash	Low	5 - 10 feet	Sapling

26 4191 - Mixed Upland Deciduous with Conifer Poletimber Poor 2.4 36 1-50 N/A Opening filling in with white pine red maple cherry and ironwood.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Pole/Sapling	5	
White Pine	40	Pole	6	36
Ironwood	15	Pole/Sapling	5	
Black Cherry	15	Pole/Sapling	5	

27 6129 - Mixed Coniferous Lowland Forest Poletimber Well 9.6 91 111-140 N/A Wet - really wet - lots of deer traffic

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	15	Pole/Log	8	
Balsam Poplar	5	Log	14	
Red Maple	5	Pole/Log	8	
Black Spruce	15	Pole/Log	8	
Northern White Cedar	40	Pole/Log	9	91
White Pine	10	Log	13	
Paper Birch	5	Pole/Log	8	
Hemlock	5	Log	13	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	< 5 feet	Sapling

28 4119 - Mixed Northern Hardwoods Poletimber Well 4.0 35 1-50 N/A regenerating M3/M6, age estimate is just a guess

Canopy Species	% Cover	Size Class	DBH	Age
Ironwood	10	Sapling/Pole	4	
Basswood	10	Sapling/Pole	4	
Quaking Aspen	5	Sapling/Pole	4	
Black Cherry	15	Sapling/Pole	4	
Red Maple	45	Pole/Sapling	6	35
Sugar Maple	15	Log/Pole	10	



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29	4119 - Mixed Northern Hardwoods	Sawtimber Well	56.0	82	81-110	N/A	Northern hardwood stand lots of beech sprouting, residual looks good. Small stream runs through stand area dominated by hemlock, yellow birch, cedar, and aspen. Hungry Bear Hardwoods Sale completed in 20009 (52-006-05)																																																																				
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30	4130 - Aspen	Sapling Well	19.2	3	Immature	N/A	Stand harvested as Mannish Mann Redux (52-001-20) in Jan 2021. White pine left, as well as retention along the west boundary that was too steep to harvest. Some steep slopes have 2 inch whips still on them but difficult to harvest and total less than 1 acre.																																																																				
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31	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	201.3	94	51-80	N/A	Areas of blowdown scattered throughout. Very high water table. Mostly pole timber with some log sized Tamarack and black spruce and the occassional xlog white pine. Decent scattering of regen																																																																				
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32	310 - Herbaceous Openland	Nonstocked	13.9		Immature	No	Scattered white pine, cherry, maple, and hazelnut.																																																																				
33	310 - Herbaceous Openland	Nonstocked	3.4			No	Filling in with white pine, cherry, and balsam fir.																																																																				
34	310 - Herbaceous Openland	Nonstocked	18.0			No	Wolverine power line, some areas dry, some areas wet.																																																																				
35	6239 - Mixed Emergent Wetland	Nonstocked	20.7	0		No	Beaver activity starting to flood out trees. Areas of cattails and swamp grasses. Some areas look to be a little higher and might be drying out and starting to develop regen (SE corner). Scattered balsam, cedar, spruce, and white pine still holding on.																																																																				



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36	4110 - Sugar Maple Association	Sawtimber Well	44.2	94	81-110	N/A	Part of Hungry Bear Hardwoods sale (52-006-005-01), completed in 2009. Residual trees look good, understory is fairly undeveloped. Ironwood mainly located west side of stand. Maple small 6 inch seedlings scattered throughout.																																										
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37	6124 - Lowland Spruce-Fir	Sapling Medium	6.9	6	Immature	N/A	Aspen had died out due to high water table, paper birch still holding on, understory with cedar spruce and fir beginning to develop.																																										
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38	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	12.5	48	1-50	N/A	Stand beginning to fill in, no longer non forested, standard upland mix for this area.																																										
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39	6112 - Lowland Aspen	Poletimber Well	4.2	25	Immature	N/A	strip cuts that were done by kondrat, combined into one multi part stand b/c the composition is similiar, however the ages are different by roughly 5 years, could not find specific cutting records for these two patches																																										
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40	310 - Herbaceous Openland	Nonstocked	1.3			No	St Boyne Valley 13-32 was authorized under DNR Well Site Surface Use Permit 701-2010 and DEGLE permit 58650. DEGLE permit status is terminated (i.e. the well was not drilled). While the well was not drilled, there was earth work (i.e. access road and tree clearing). The site has been restored per SUP 701-2010. There was no utility(s) or pipeline(s) associated with this site.																																										
41	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	8.6	87	81-110	N/A	narrow valley with with a creek and plenty of seeps																																										
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Stand **Level 4 Cover Type** **Size Density** **Acres** **Stand Age** **BA Range** **Managed Site** **General Comments**

42 6129 - Mixed Coniferous Lowland Forest Poletimber Poor 127.8 104 1-50 N/A Mixed swamp conifer, some areas of blown down and high water table. Lower than stand 25 to the east. Beaver activity has started to cause some tree mortality in the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	25	Pole/Sapling	7		Red Osier Dogwood	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	40	Pole/Log/Sap	8	104	Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce	16	Pole/Log/Sap	8		Balsam Fir	Medium	5 - 10 feet	Sapling
Black Ash	5	Pole/Sapling	7		Black Ash	Low	5 - 10 feet	Sapling
Red Maple	7	Pole/Sapling	7		Common Buckthorn	Low	5 - 10 feet	Tall Shrub
Paper Birch	5	Pole/Log	9		Striped Maple	Low	5 - 10 feet	Sapling
White Pine	2	Log	12					

43 4112 - Maple, Beech, Cherry Association Sawtimber Well 6.9 74 51-80 N/A Edge of ridge that drops down in to swamp, scattered white pine

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	3	Log/Pole	11		Beech	Low	5 - 10 feet	Sapling
White Ash	1	Log	12		Ironwood	Low	10 - 20 feet	Sapling
Black Cherry	10	Log/Pole	10		Sugar Maple	Low	< 5 feet	Seeding
Paper Birch	9	Log/Pole	10					
Sugar Maple	35	Log/Pole	10	74				
Beech	15	Log/Pole	10					
Red Maple	20	Log/Pole	11					
White Pine	7	Log	13					

44 4110 - Sugar Maple Association Poletimber Well 88.4 78 111-140 N/A Most of stand thinned in 1997 as part of Snowridge Hardwoods sale, lots of beech sprouts and ironwood in the understory, residual trees look good and healthy, evidence of BBD and EAB.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	1	Log/Pole	10		Beech	Medium	< 5 feet	Sapling
Yellow Birch	3	Log/Pole	10		Ironwood	Low	< 5 feet	Sapling
Hemlock	1	Log/Pole	12					
Basswood	15	Log/Pole	12					
Sugar Maple	75	Log/Pole	12	78				
Beech	5	Log/Pole	10					

45 4130 - Aspen Poletimber Well 9.9 24 1-50 N/A Old aspen clearcut part of Rookie Aspen in 1999

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	5	Sapling	1		Ironwood	Low	10 - 20 feet	Sapling
Black Cherry	10	Sapling/Pole	4		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	75	Pole/Sapling	5	24	Balsam Fir	Low	5 - 10 feet	Sapling
Red Maple	10	Sapling	2		Sugar Maple	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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46 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 11.7 72 51-80 N/A A few high spots of low quality hardwood. Quaking aspen looks good but transitional lly wet.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Pole/Log	8		Ironwood	Low	5 - 10 feet	Sapling
Red Maple	15	Pole/Log	8	82	Beech	Low	< 5 feet	Sapling
Basswood	15	Pole/Log	8		White Pine	Trace	5 - 10 feet	Sapling
Quaking Aspen	35	Log/Pole	10	72	Balsam Fir	Medium	10 - 20 feet	Sapling
Balsam Fir	20	Pole/Log	9					
Paper Birch	5	Pole/Log	9					
Beech	5	Pole/Log	8					

47 330 - Low-Density Trees Nonstocked 21.9 No Grass opening beginning to fill in with tree and shrub species.

48 4111 - S.Maple, Hard Mast Association Sawtimber Well 8.0 94 111-140 N/A small hardwood stand, easy access make and stocking make it ready for a thinning, small size may preclude any large scale logging operations, stand left as retention along road during cutting of Rookie Aspen to the south. Some trees cut as part of sale fuelwood sale (2012) but most basswood left uncut. Purpose of cut was not regeneration.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	25	Log/Pole	12		Beech	Low	5 - 10 feet	Sapling
Beech	25	Log/Pole	11		Ironwood	Low	5 - 10 feet	Sapling
Sugar Maple	45	Log/Pole	11	94				
White Ash	5	Log/Pole	12					

49 622 - Lowland Shrub Nonstocked 1.6 No

50 310 - Herbaceous Openland Nonstocked 2.8 No

51 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 8.4 30 Immature N/A Looks to be a stand developing from old strip cuts done in the swamp. Similar in composition to stand 62 to the east that was harvested at roughly the same time.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	30	Pole/Sapling	5		Red Osier Dogwood	Low	5 - 10 feet	Tall Shrub
Black Spruce	10	Pole/Sapling	5		Northern White Cedar	Trace	< 5 feet	Sapling
Quaking Aspen	35	Pole	6	30	Red Maple	Low	< 5 feet	Sapling
Paper Birch	25	Pole	6		Balsam Fir	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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52	6120 - Lowland Cedar	Sawtimber Well	8.7	99	141-170	N/A	Creek running west to east through stand, nice quality cedar, good buffer for water quality
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	2	Pole/Log	9		Balsam Fir	Low	< 5 feet	Sapling
Quaking Aspen	3	Log	15		Beech	Trace	5 - 10 feet	Sapling
Northern White Cedar	72	Log	11	99				
Red Maple	5	Log/Pole	11					
Basswood	3	Log	12					
Hemlock	5	Pole/Log	9					
Yellow Birch	10	Log/Pole	10					

53	4112 - Maple, Beech, Cherry Association	Sawtimber Well	145.0	86	81-110	N/A	Stand thinned as part of Fox Den Hardwoods (52-026-98-01), completed in 2001. All aspen removed during harvest which has resulted in some areas with spotty BA. Areas where aspen is dominant broken out as a separate stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	38	Log/Pole	11	86	Ironwood	Medium	10 - 20 feet	Sapling
Beech	30	Log/Pole	11		Beech	High	10 - 20 feet	Sapling
Red Oak	5	Log/Pole	12					
Red Maple	17	Log/Pole	12					
Basswood	10	Log	13					

54	4110 - Sugar Maple Association	Sawtimber Well	124.5	96	81-110	N/A	East/West ridge running along southside of stand and down into lowland on the north. lots of seeps and creeks running in the valleys down into the lowlands make most of the upland areas inaccessible.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	55	Log/Pole	11	96	Beech	Low	5 - 10 feet	Sapling
White Ash	5	Log/Pole	12		Ironwood	Low	< 5 feet	Sapling
Hemlock	5	Log/XLog	14		Sugar Maple	Trace	< 5 feet	Seeding
Yellow Birch	5	Log	12					
Basswood	20	Log/Pole	13					
Beech	10	Log/Pole	11					

55	4130 - Aspen	Poletimber Well	15.8	24	1-50	N/A	aspen clear cut, old logging road is blown out, is entered into the database as an RDR, multi part stand, cut in 1999 with Rookie Aspen
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	62	Pole/Sapling	6	24	Beech	Low	< 5 feet	Sapling
Quaking Aspen	30	Pole/Sapling	6		Ironwood	Low	10 - 20 feet	Sapling
Black Cherry	3	Pole	6		Red Maple	Low	10 - 20 feet	Sapling
Paper Birch	5	Sapling/Pole	4					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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56 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 11.3 88 111-140 N/A Lots of diversity in stand, small creek meanders through stand

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Log	11	
Yellow Birch	5	Log	11	
Quaking Aspen	5	Log	12	
Balsam Poplar	5	Log	12	
Basswood	3	Log	12	
Sugar Maple	2	Log	10	
Northern White Cedar	40	Log/Pole	10	88
Red Maple	5	Log	10	
Hemlock	20	Log/Pole	10	
Balsam Fir	10	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling

57 4130 - Aspen Poletimber Well 18.6 35 1-50 N/A

Aspen clearcut, TCR states the stand was cut in 1988. All conifers left uncut during harvest, some hemlock and cedar. Also avoided some wet areas.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	50	Pole/Log	8	35
Bigtooth Aspen	40	Pole/Log	8	
Red Maple	10	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Low	10 - 20 feet	Sapling
Black Cherry	Trace	10 - 20 feet	Sapling
Beech	Low	10 - 20 feet	Sapling

58 4111 - S.Maple, Hard Mast Association Sawtimber Well 9.5 76 111-140 N/A

Small northern hardwood stand separated from larger hardwood stand to the east by a creek. Severe ash mortality/EAB in the stand. Wet are in the middle of the stand surrounded by an inclusion of Bigtooth Aspen and developing hemlock, larger concentration of Sugar Maple poles in the south end

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	42	Log/Pole	11	76
Red Maple	5	Log	11	
Basswood	18	Log	11	
Beech	10	Log	10	
Bigtooth Aspen	15	Log/XLog	14	
Hemlock	10	Pole/Log/Sap	9	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Medium	5 - 10 feet	Sapling

59 6120 - Lowland Cedar Sawtimber Well 9.2 107 81-110 N/A

lowland stand surrounding a north/south running creek, mix of mainly hemlock and cedar, signs of EAB mortality

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Log	9	
Northern White Cedar	50	Pole/Log	9	107
Yellow Birch	10	Pole/Log	10	
Hemlock	30	Pole/Log	9	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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60	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	65.8	93	171-200	N/A	Interesting stand, canopy is mostly species you would expect to find in a lowland but most understory species are upland. Soil looks like a lowland type, but topography all slopes down from this stand to the north west and south. Lots of seeps and streams.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		3	Log	14		Balsam Fir		Low	5 - 10 feet	Sapling	
Red Maple		7	Pole	8		White Pine		Trace	< 5 feet	Sapling	
Northern White Cedar		45	Pole/Log	8	93	Beech		Trace	< 5 feet	Sapling	
Balsam Fir		25	Pole/Log/Sap	8							
Paper Birch		15	Pole/Log	9							
Black Spruce		5	Pole	8							

61	4130 - Aspen	Sapling Well	46.1	24		N/A	Aspen clearcut, part of Rookie Aspen sale in 1999			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		60	Pole/Sapling	5	24	Ironwood		Low	5 - 10 feet	Sapling
Black Cherry		3	Sapling/Pole	3						
Sugar Maple		7	Sapling/Pole	3						
Beech		8	Sapling/Pole	3						
Red Maple		2	Sapling/Pole	3						
Quaking Aspen		20	Pole/Sapling	5						

62	6139 - Mixed Lowland Forest	Poletimber Well	22.7	33	1-50	N/A	Stand was harvested from 1983 through 1995, 1990 was used as an average start age			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		15	Pole/Sapling	5						
Paper Birch		30	Pole	6	33					
Balsam Fir		32	Pole/Sapling	5	33					
Black Spruce		5	Pole/Sapling	5						
Northern White Cedar		5	Log/Pole	10						
Black Ash		3	Pole/Sapling	5						
White Pine		2	Log	14						
Quaking Aspen		8	Pole/Sapling	5						

63	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	5.9	96	111-140	N/A	convergence of small feeder streams into a larger creek, mix of cedar with wet mesic hardwood types			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Ash		10	Pole/Log	9		Beech		Low	< 5 feet	Seeding
Sugar Maple		10	Log/Pole	10		Ironwood		Low	< 5 feet	Seeding
Red Maple		5	Log	12						
Yellow Birch		7	Log/Pole	11						
Beech		3	Pole	8						
Bigtooth Aspen		10	Log/XLog	14						
Northern White Cedar		35	Log/Pole	10	96					
Hemlock		20	Log/Pole	10						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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64 6129 - Mixed Coniferous Lowland Forest Poletimber Well 52.5 92 81-110 N/A Really wet in the NE and west portions of stand.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	27	Pole/Sapling	6	
Black Spruce	20	Pole/Log	8	
Northern White Cedar	40	Log/Pole	10	92
White Pine	3	Log	14	
Paper Birch	5	Pole/Log	9	
Balsam Poplar	5	Pole/Log	9	

65 4130 - Aspen Sapling Medium 4.6 6 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	15	Sapling	1	
Black Cherry	10	Sapling	1	
Quaking Aspen	15	Sapling	1	
Beech	10	Sapling	1	
Red Maple	5	Sapling	1	
Bigtooth Aspen	45	Sapling	1	6

66 4130 - Aspen Sawtimber Well 18.8 48 81-110 N/A Some upland brush openings scattered throughout, no access across private

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	15	Log/Pole	11		Serviceberry (Juneberry)	Trace	10 - 20 feet	Sapling
Paper Birch	5	Pole/Log	9		Black Cherry	Low	5 - 10 feet	Sapling
Balsam Fir	5	Pole/Log	9		Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
Northern White Cedar	5	Log	12		Sugar Maple	Medium	< 5 feet	Sapling
Quaking Aspen	70	Log/Pole	11	48				

67 330 - Low-Density Trees Nonstocked 1.8 No

68 4110 - Sugar Maple Association Sawtimber Well 112.3 82 81-110 N/A Part of Lost & Found HDWDS (52-010-05-01), completed sale in 2008. Residual showing good growth and form. Common flush of 6" sugar maple seedlings present.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Log/Pole	12		Ironwood	Medium	10 - 20 feet	Sapling
Ironwood	2	Pole	8		Sugar Maple	Medium	< 5 feet	Seeding
Beech	10	Log/Pole	10		Beech	High	Variable	Sapling
Basswood	30	Log/Pole	12					
Sugar Maple	55	Log/Pole	12	82				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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69 4116 - Mixed N. Hardwood - Aspen Sawtimber Poor 27.6 79 1-50 N/A Pockets of nice big tooth aspen clones mixed with decent maple poles and open upland brush areas.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Log	12		Common Or Ground Juniper	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen	25	Log	12	72				
Red Maple	10	Log	14					
Sugar Maple	35	Pole/Log	9	79				
Black Cherry	15	Pole	6					
Basswood	5	Log	12					
White Pine	5	Pole	8					

70 6123 - Lowland Fir Poletimber Well 4.7 58 1-50 N/A Mixed swamp conifer, beaver activity starting to cause mortality, lowland brush type expanding.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	69	Pole	7	58
Northern White Cedar	25	Pole/Log	9	
Paper Birch	3	Pole	6	
Yellow Birch	3	Pole	5	

71 6132 - Mixed Lowland Forest with Cedar Sawtimber Well 17.4 88 51-80 N/A Multiple streams condense in this stand and flow to the north.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Log/Pole	9		Ironwood	Trace	5 - 10 feet	Sapling
Northern White Cedar	30	Log	12	88	Red Maple	Low	5 - 10 feet	Sapling
Sugar Maple	10	Pole/Log	8					
Hemlock	15	Log	12					
Beech	15	Log/Pole	9					
Yellow Birch	5	Pole/Log	8					
Paper Birch	10	Log	10					

72 622 - Lowland Shrub Nonstocked 15.8 No

73 4130 - Aspen Poletimber Well 19.0 35 1-50 N/A Regenerating aspen stand, lots of ironwood. Lots of red and sugar maple saps throughout.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	30	Pole	7		Red Maple	Low	>20 feet	Sapling
Quaking Aspen	39	Pole	7	35	Sugar Maple	Low	>20 feet	Sapling
Black Cherry	5	Pole	6		Beech	Trace	10 - 20 feet	Sapling
Red Maple	8	Pole	6		Serviceberry (Juneberry)	Low	10 - 20 feet	Sapling
Ironwood	18	Pole/Sapling	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
74	6123 - Lowland Fir	Poletimber Medium	6.9	67	1-50	N/A																																				
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Balsam Fir	50	Pole/Sap/Log	9	67																																						
75	6239 - Mixed Emergent Wetland	Nonstocked	1.4			No	Appears to be drying out enough that the stand is starting to re forest. A pretty diverse mix of upland and lowland species. Red maple, ironwood, yellow birch, white pine, Tamarack, balsam fir, black spruce, sugar maple, cedar, and cherry are all present.																																			
76	310 - Herbaceous Openland	Nonstocked	2.8			No																																				
77	6124 - Lowland Spruce-Fir	Poletimber Well	13.4	58	51-80	N/A	Small swamp stand surrounded by flowing water, pockets of cat tails and tag alder.																																			
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78	6120 - Lowland Cedar	Poletimber Well	26.6	92	81-110	N/A	coverage is patchy in some areas, cedar swamp with a mix of other conifers, lots of streams																																			
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79	622 - Lowland Shrub	Nonstocked	1.5			No																																				
80	4130 - Aspen	Sapling Well	6.4	33		N/A	Small aspen stand, good regen																																			
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81	4111 - S.Maple, Hard Mast Association	Sawtimber Well	321.0	86	81-110	N/A	Predominantly low quality south facing slopes. A few pockets of decent timber but overall lacking in stocking and form. Portion of stand west of the NCT was prescribed for a harvest last YOE (2012). Only a small portion harvested, sale turned back into the state.																																																				
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82	6120 - Lowland Cedar	Sawtimber Well	6.4	94	141-170	N/A	Cedar swamp w/ many feeder streams flowing out of wetland to the east																																																				
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84	500 - Water	Nonstocked	4.0			No																																																					
85	4130 - Aspen	Poletimber Well	4.6	30	1-50	N/A	Small diameter aspen pole/sapling stand coming along nicely																																																				
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86	4130 - Aspen	Poletimber Well	14.5	41	51-80	N/A	Aspen stand that looks to have been recently cut, doesn't correlate very well with old OI data and couldn't find a cutting record therefore the age is just an estimate																																																				
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88	6120 - Lowland Cedar	Sawtimber Well	21.3	115	111-140	N/A	Cedar swamp with many little creeks running every which way																																																																								
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89	4110 - Sugar Maple Association	Sawtimber Well	173.0	86	111-140	N/A	Majority of stand last treated in 2002 Coyote Tracks (52-002-98).																																																																								
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91	6239 - Mixed Emergent Wetland	Nonstocked	3.3			No																																																																									
92	310 - Herbaceous Openland	Nonstocked	15.2			No	Scattered black cherry and ground juniper. White pine and Scotch pine present as well.																																																																								
93	4130 - Aspen	Poletimber Well	10.6	33	1-50	N/A	Regenerating aspen stand, starting to develop in to a pole stand																																																																								
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94	330 - Low-Density Trees	Nonstocked	3.7	0		No	Stand harvested by Bernie Kondrat from 2016-2017. All hemlock and white pine were left, residual BA less than 10. Tops were lopped and scattered, no significant regeneration yet. Some advanced regen (BAM) on the edges. Nothing in the cut yet only unmerchantable trees that weren't harvested, hemlock and white pine have blown down.																																																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
95	4110 - Sugar Maple Association	Sawtimber Well	36.0	94	81-110	N/A	Hop Scotch Hardwoods (52-024-15-01). Sale Completed 10/19. Heavy raspberry regen in larger gaps. Lots of deer use for bedding in thick raspberry cover and lots of browse. Maple regen thick in spots but all less than 1 foot. Natural Regen survey conducted in 10/22. Desirable number of maple seedlings found in gaps that meet stocking criteria for a fully stocked stand. Seedlings not above browse line, added another regen check in 5 years to assess success of regen.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Basswood	24	Log/Pole	11		Sugar Maple	High		< 5 feet	Sapling
Red Maple	15	Log	10		Basswood	Trace		< 5 feet	Sapling
Sugar Maple	60	Log/Pole	12	94	Beech	Low		5 - 10 feet	Sapling
Beech	1	Log/Pole	12						
96	4110 - Sugar Maple Association	Sawtimber Well	27.1	96	51-80	N/A	Hop Scotch Hardwoods (52-024-15-01) Harvest completed 10/19. Standard flush of 6 inch tall sugar maple seedlings. Natural Regen survey conducted in 10/22. Desirable number of maple seedlings found in gaps that meet stocking criteria for a fully stocked stand. Seedlings not above browse line, added another regen check in 5 years to assess success of regen.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Cherry	2	Log	12		Beech	Medium		5 - 10 feet	Sapling
Yellow Birch	2	Pole/Log	9		Sugar Maple	High		< 5 feet	Seeding
Beech	1	Log/Pole	11		Ironwood	Low		< 5 feet	Sapling
Quaking Aspen	3	Log	14						
Hemlock	5	Pole/Log	8						
Bigtooth Aspen	2	Log	14						
Basswood	29	Log/Pole	13						
Sugar Maple	56	Log/Pole	11	96					
97	4110 - Sugar Maple Association	Sawtimber Well	39.6	86	81-110	N/A	Hop Scotch Hardwoods (52-024-15-01). Harvest Completed 10/19. Standard flush of numerous hard maple seedlings in gaps and in shade. Average BA from 5 points is 87. Natural Regen survey conducted in 10/22. Desirable number of maple seedlings found in gaps that meet stocking criteria for a fully stocked stand. Seedlings not above browse line, added another regen check in 5 years to assess success of regen.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Yellow Birch	3	Log/Pole	10		Sugar Maple	High		< 5 feet	Seeding
Basswood	18	Log/Pole	12		Ironwood	Low		< 5 feet	Sapling
Beech	1	Log/Pole	10		Beech	High		10 - 20 feet	Sapling
Sugar Maple	75	Log/Pole	12	86					
Red Maple	3	Log/Pole	10						
98	4110 - Sugar Maple Association	Sawtimber Well	163.2	92	111-140	N/A	Predominantly south and east facing slope. Lots of seeps located in the NW corner of the stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Hemlock	1	Log/Pole	10		Sugar Maple	Low		5 - 10 feet	Sapling
Beech	4	Log/Pole	10		Ironwood	Low		5 - 10 feet	Sapling
Basswood	12	Log	12		Beech	Medium		10 - 20 feet	Sapling
Yellow Birch	2	Log	12						
Red Maple	6	Log/Pole	11						
Sugar Maple	75	Log/Pole	12	92					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																							
99	4130 - Aspen	Poletimber Well	11.9	22	1-50	N/A	Portions of Fox Den Hardwoods sale where all aspen was removed and it resulted in an aspen dominated stand coming back.																																																																							
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100	4110 - Sugar Maple Association	Sawtimber Well	321.5	86	81-110	N/A	Formerly part of stand 81. Sanchez Hardwoods (52-027-15) Thinned 10/19. Good growth on residual stems. Common flush of <6" maple seedlings. Beech brush doesn't seem to have responded a lot yet, but iron wood is doing well. Natural Regen survey conducted in 10/22. Desirable number of maple seedlings found in gaps that meet stocking criteria for a fully stocked stand. Seedlings not above browse line, added another regen check in 5 years to assess success of regen.																																																																							
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101	4119 - Mixed Northern Hardwoods	Sawtimber Well	79.1	96	81-110	N/A	Boyne Valley Hardwood (52-017-95-01), completed in 2001. Small areas too steep to harvest left. Hemlock and cedar along wet seeps.																																																																							
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102	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	108.9	94	111-140	N/A	Multiple braided streams, white pine on transitional areas between upland ridges and swamp bottom. Areas of blowdown and regen, lots of deer sign.																																																																							
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103	4115 - Y.Birch, Hemlock NH	Sawtimber Poor	14.0	86	81-110	N/A	Scattered pockets of dead and dying timber (high water table?) Beech is heavily infected with BBD and snap is occurring. Some inclusions of cedar and balsam fir in wetter areas. Scattered red maple, yellow birch, and tag alder in the lowland areas.																																																				
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105	4110 - Sugar Maple Association	Sawtimber Well	58.2	86	81-110	N/A	Harvested in 2007 as part Xylophone Hardwoods (52-005-05-01)																																																				
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106	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	125.3	94	1-50	N/A	Beaver activity and subsequently the water table has appeared to have decreased from last inventory. Plenty of standing dead poles still. Understory is dominated by tag alder.																																																				
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107	6239 - Mixed Emergent Wetland	Nonstocked	20.2	0		No	Portion of stands 19 and 15 that have had the trees die off due to beaver flooding. Large amount of standing dead timber yet with some areas of open water and ponding due to beaver activity.																																																				
108	6239 - Mixed Emergent Wetland	Nonstocked	2.5		Immature	No	Scattered hemlock yellow birch and red maple. Cattails and tag alder present in areas.																																																				
109	6239 - Mixed Emergent Wetland	Nonstocked	1.4		Immature	No	Low drainage from surrounding hills. Scattered quaking aspen, yellow birch and red maple.																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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110 6239 - Mixed Emergent Wetland Nonstocked 5.2 0 No Multiple seeps flow into and form a creek flowing to the west, scattered cedar, yellow birch, red maple, and tag alder.

111 4110 - Sugar Maple Association Sawtimber Well 21.5 86 111-140 N/A Larger component of aspen in stand and separated from the rest of the compartment by various lowland areas.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Log/Pole	11		Sugar Maple	Medium	< 5 feet	Seeding
Sugar Maple	37	Log/Pole	11	86	Beech	Low	5 - 10 feet	Sapling
Basswood	45	Log/Pole	12	86	Ironwood	Medium	10 - 20 feet	Sapling
Beech	2	Log/Pole	10					
Quaking Aspen	7	Log	13					
Bigtooth Aspen	7	Log	13					

112 4110 - Sugar Maple Association Sawtimber Well 66.1 86 81-110 N/A Portion of stand 81 that wasn't harvested last YOE.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Ash	10	Log/Pole	12		Ironwood	Low	5 - 10 feet	Sapling
Bigtooth Aspen	2	Log	13		Beech	Low	5 - 10 feet	Sapling
Beech	7	Log/Pole	10		Sugar Maple	Low	5 - 10 feet	Sapling
Basswood	24	Log/Pole	10					
Sugar Maple	55	Log/Pole	11	86				
Red Maple	2	Log/Pole	11					

113 4139 - Aspen, Mixed Deciduous Sawtimber Well 7.8 75 81-110 N/A Small pocket of upland surrounded by lowland areas.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	1	Pole	7		Sugar Maple	Low	5 - 10 feet	Sapling
Red Oak	1	Log/Pole	15		Ironwood	Low	5 - 10 feet	Sapling
Sugar Maple	20	Log/Pole	10		Beech	Medium	5 - 10 feet	Sapling
Yellow Birch	3	Pole	7		Red Maple	Low	5 - 10 feet	Sapling
Red Maple	10	Pole/Log	9					
Beech	15	Log/Pole	12					
Bigtooth Aspen	30	Log	14	75				
Quaking Aspen	15	Log/Pole	11					
Basswood	5	Log	12					