



Compartment Review Presentation

Gladwin Forest Management Unit

Compartment 73002

Entry Year 2023

Acreage: 2,678

County Clare

Management Area: Upper Muskegon

Revision Date: 2021-05-18

Stand Examiner: Colton Behrmann

Legal Description:

T20N R03W Sections 1, 4, 5, 8, 12, 14, 17, 25, 32 & 33

Identified Planning Goals:

Manage the aspen, oak and red pine stands to maintain a variety of age classes to support forest sustainability and to enhance wildlife habitat.

Soil and topography:

The area varies from medium drained soils to well drained soils and is level to gently rolling hills. The major soil types are Montcalm-Menominee-Nester. And Graycalm-Montcalm associations. Overall the compartment is on excellent ground with site indices well above average.

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

The state land in this compartment is spread out all over T20N, R03W. The state and private lands are intermixed resulting in miles of private property lines. Private holdings range from small (less than 15 acres) subdivided lots to larger (greater than 40 acres) forested single holdings with absentee landowners. Forest management activity occurs on the larger private holdings. There are numerous permanent residences scattered throughout the entire compartment as well. The proximity of Dodge City to this compartment concentrates use on State Land within this compartment. There is also some farmland within the compartment and two small subdivisions that are adjacent to state land.

Unique Natural Features:

MNFI records indicate the following: high-quality pine barrens to W. Box turtle and osprey two miles to W. Red shouldered hawk further W. Bald eagle, wood turtle to E. Kirtland's warbler two miles to N. Loon to S. Historical record for bigmouth shiner to E in tributary to Muskegon River. Potential for blanding's turtle and eastern massasauga rattlesnake. Hill's thistle to NE. Potential for loons in lakes. Slight potential for secretive locust in bogs, especially if surrounded by jack pine. Potential for hill's thistle and allegheny plum in grassy openings within oak and pine stands. Slight potential for calypso and ram's head lady's slipper in conifer swamps.

Archeological, Historical, and Cultural Features:

There is one documented site within the compartment.

Special Management Designations or Considerations:

None known.

Watershed and Fisheries Considerations:

Popple Creek, Middle Branch Cedar River and several unnamed drainages flow through the compartment. There are many scattered low areas that are seasonally flooded and support populations of waterfowl and many non-game species.

Wildlife Habitat Considerations:

Wildlife Habitat Considerations: Compartment 2 contains a variety of habitat types suitable for many wildlife species. The combination of older and younger forest age classes provides year-round habitat for many wildlife species that require various conditions throughout the year. Some game species that use this compartment include white-tailed deer, black bear, ruffed grouse, wild turkey, and American woodcock. Many other wildlife species likely use this compartment, including wood turtle, Blanding's turtle, pileated woodpecker, red shouldered hawk, goshawk, wood thrush, and woodland vole. Access to the larger portion of the compartment can be made along Claroskee Road.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact and glacial sand and gravel and postglacial alluvium and dune sand (southeast). The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift are the Pennsylvanian Grand River and Saginaw Formations. The Saginaw Formation is used for clay/shale in other areas of the State. A gravel pit is located in Section 8 and gravel potential appears to be good, especially the upland areas. Minor oil and gas development has

occurred in the compartment. Headquarters Field is located in the northeast portion. Discovered in 1941, it has produced more than 11 million BO from four Devonian formations, primarily the Richfield. All state mineral rights are leased for oil and gas development in the Compartment.

Vehicle Access:

Access to most of the compartment is good via the county road system and state two tracks that are in place.

Survey Needs:

Survey request for Section 14 NESW quarter quarter has been submitted. New parcel purchased in 2013.

Recreational Facilities and Opportunities:

Designated Snowmobile Trail 655 located in T20NR03WS01. Dispersed recreation of hunting, camping, and orv use is likely to occur through out compartment due to the interface with the many private adjacent land owners and abundant state forest roads.

Fire Protection:

A potential fire control problem exists due to the rural/urban interface within this compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

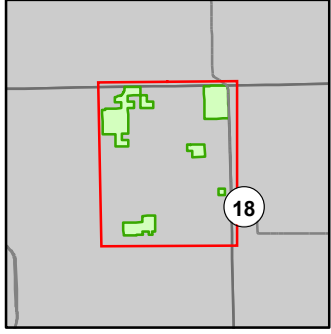
- Total Acres by Cover Type and Age Class
- Cover Type by Harvest Method
- Proposed Treatments – No Limiting Factors
- Proposed Treatments – With Limiting Factors
- Stand Details (Forested and Nonforested)
- Dedicated and Proposed Special Conservation Areas
- Site Condition Details

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

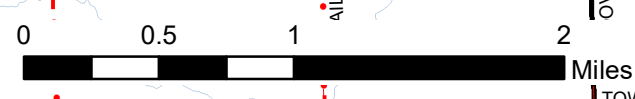
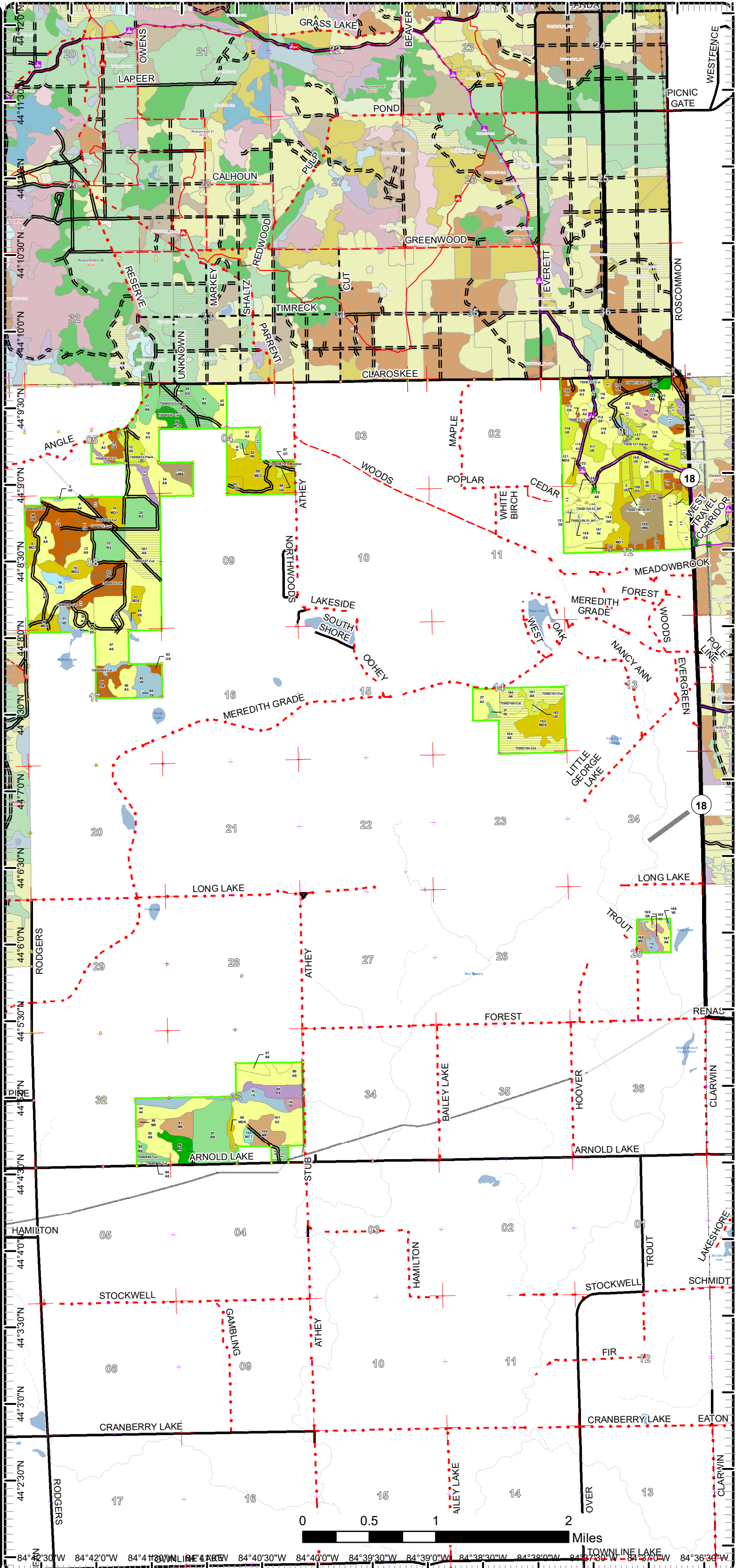
- Base feature information, stand boundaries, cover types, and numbers
- Proposed treatments
- Site condition boundaries
- Details on the road access system

Cover Type & Treatments Map

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 Unit: Gladwin
 Mgmt Area: Upper Muskegon
 YOE: 2023
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 Map Revised: 6/2/2021
 Map Phase: Web-Post



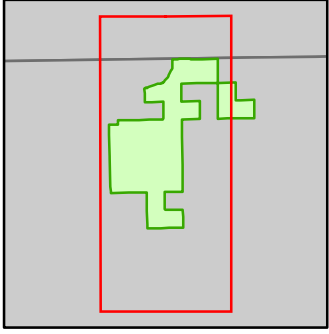
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- + Remonumented Section Corners
- Survey Grade Corners
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- DNR - Secondary Forest Road
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- Gate
- Culvert
- Pipeline
- Airports
- Compartment Boundary
- Pesticide
- Other Treatment - See Comments
- Planting (tree species)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
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- 412 - Oak Types
- 413 - Aspen
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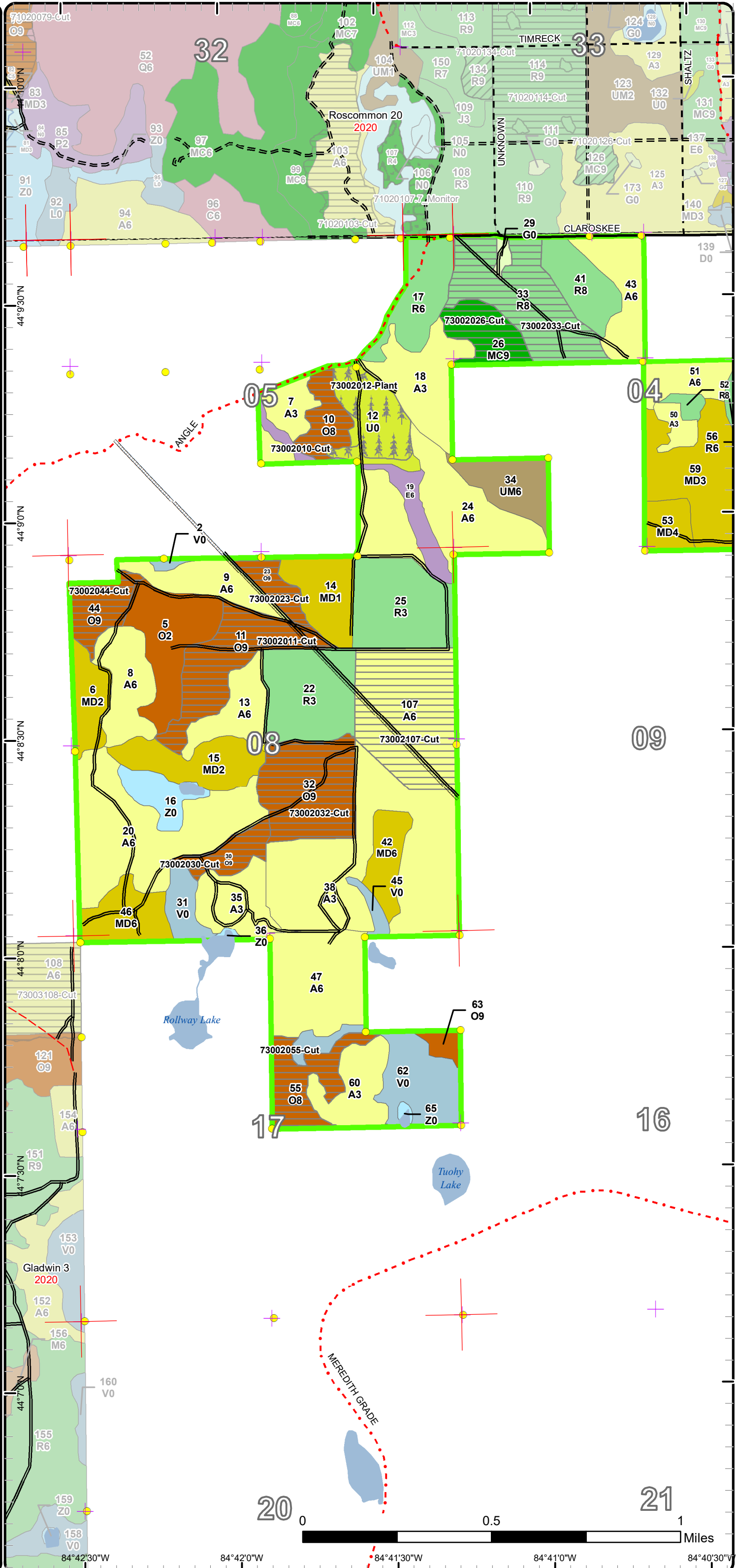
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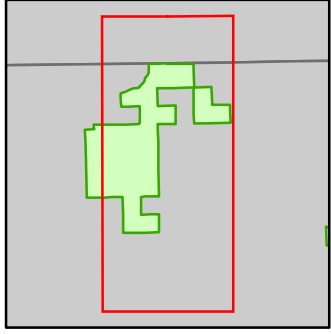


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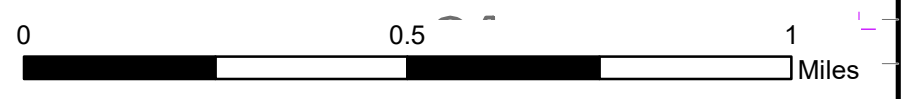
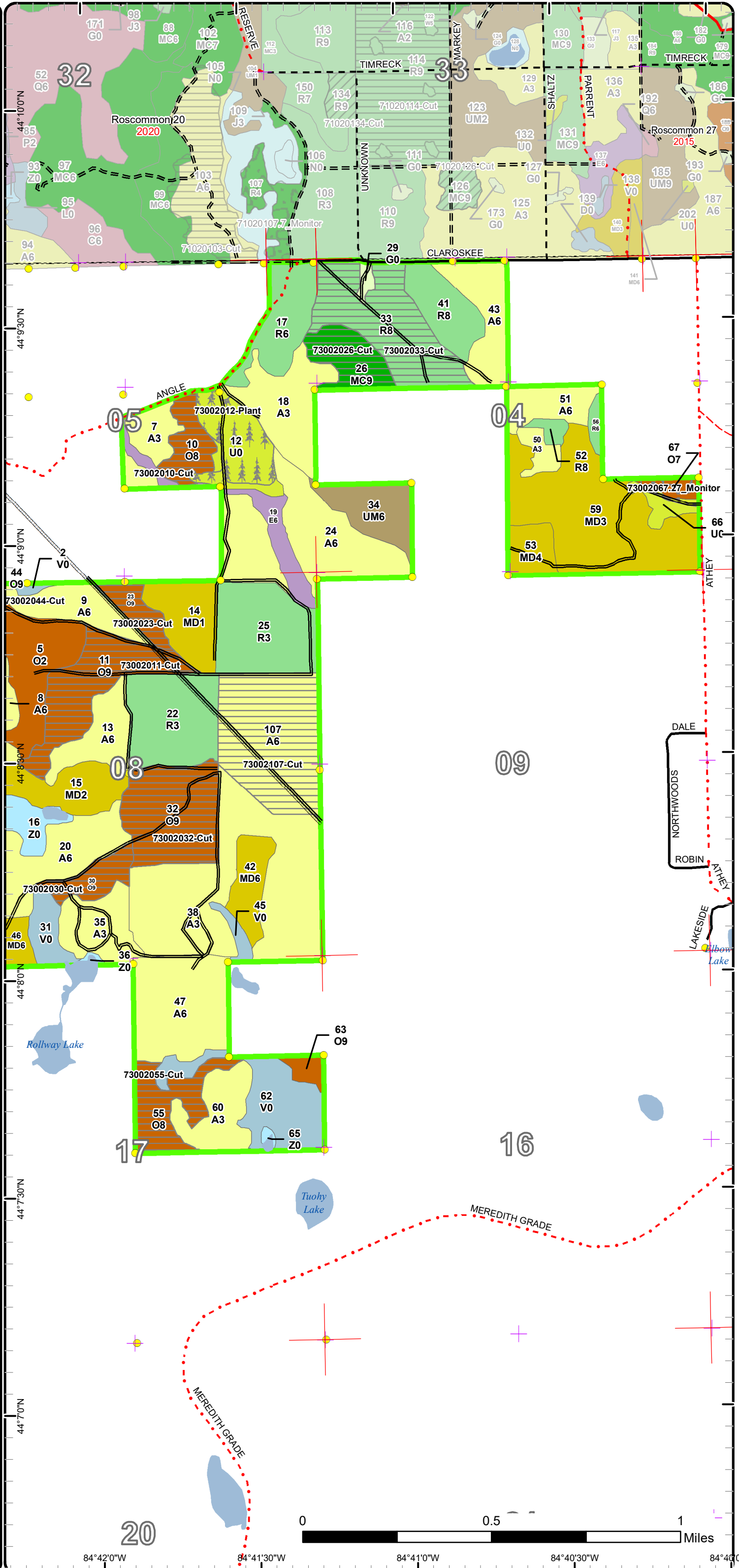


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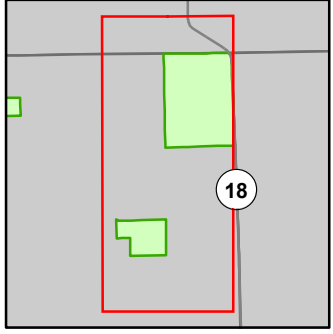
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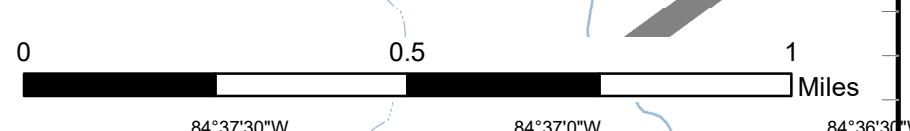
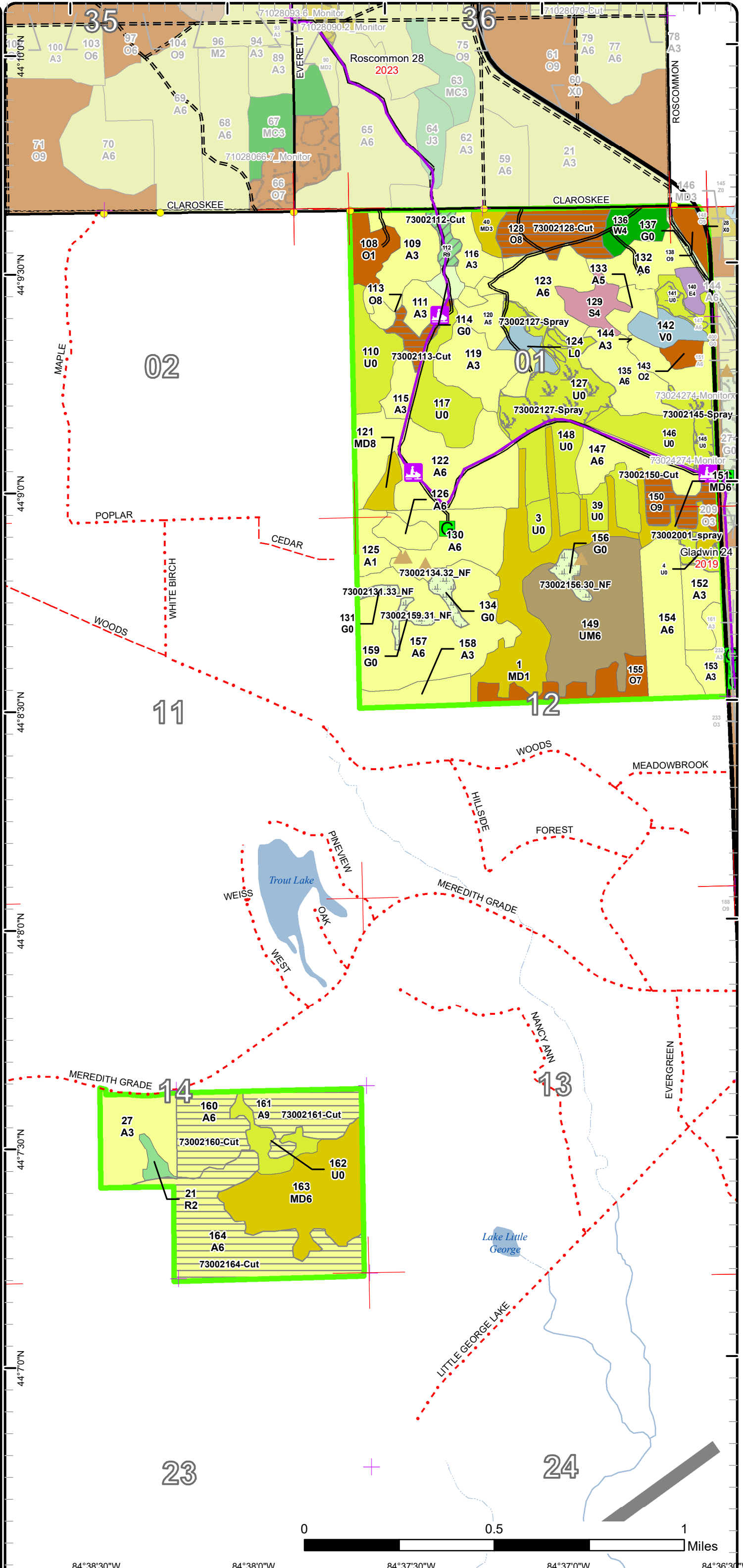
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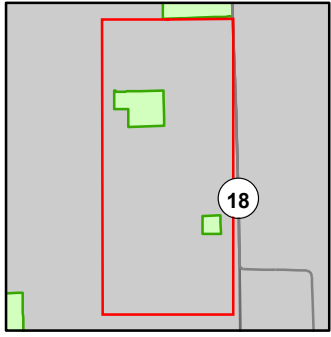


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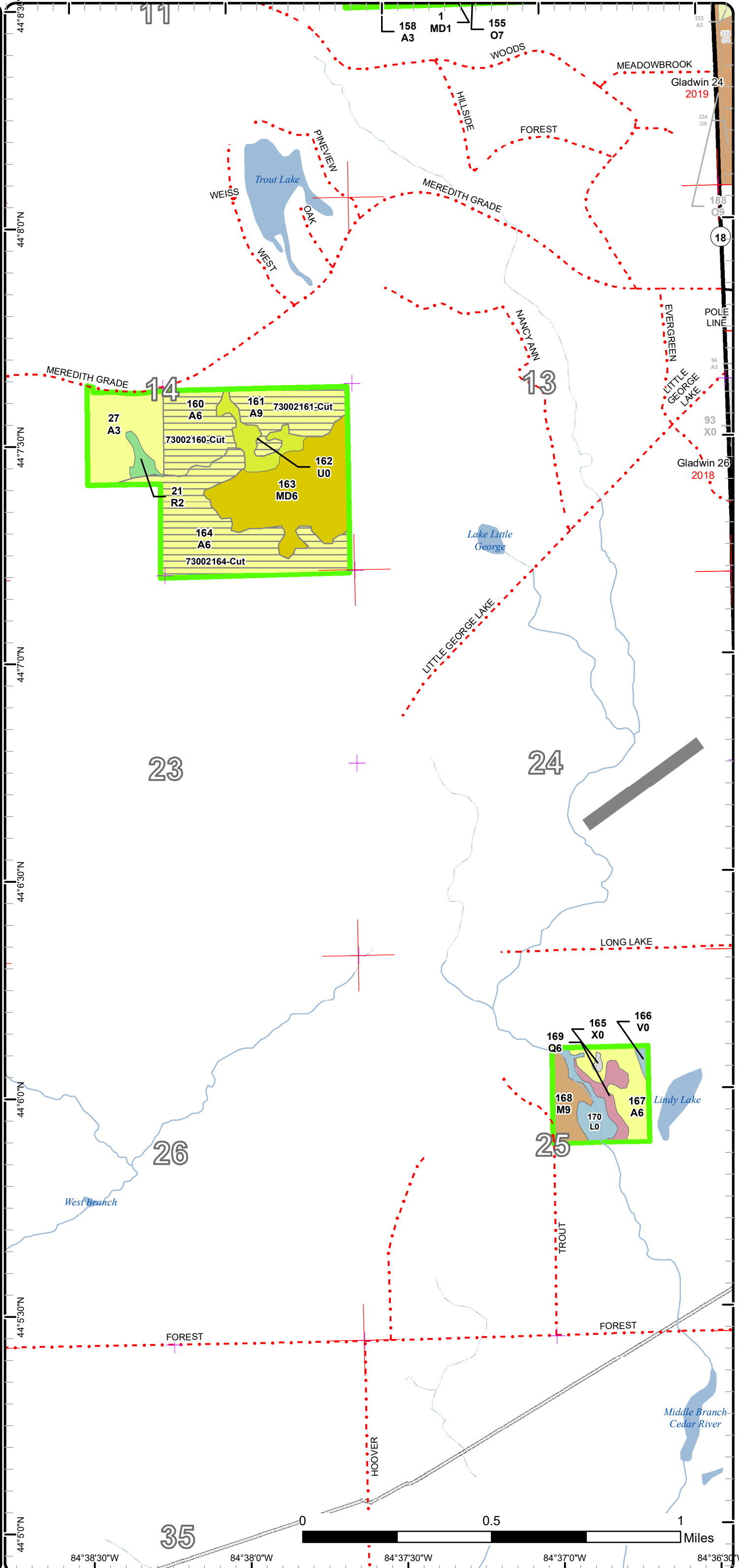


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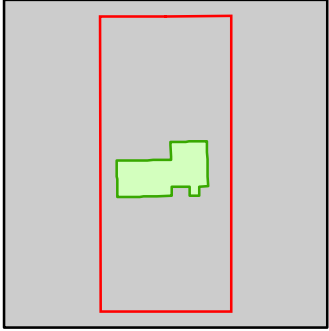


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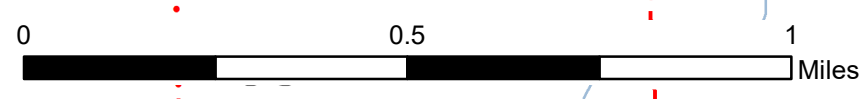
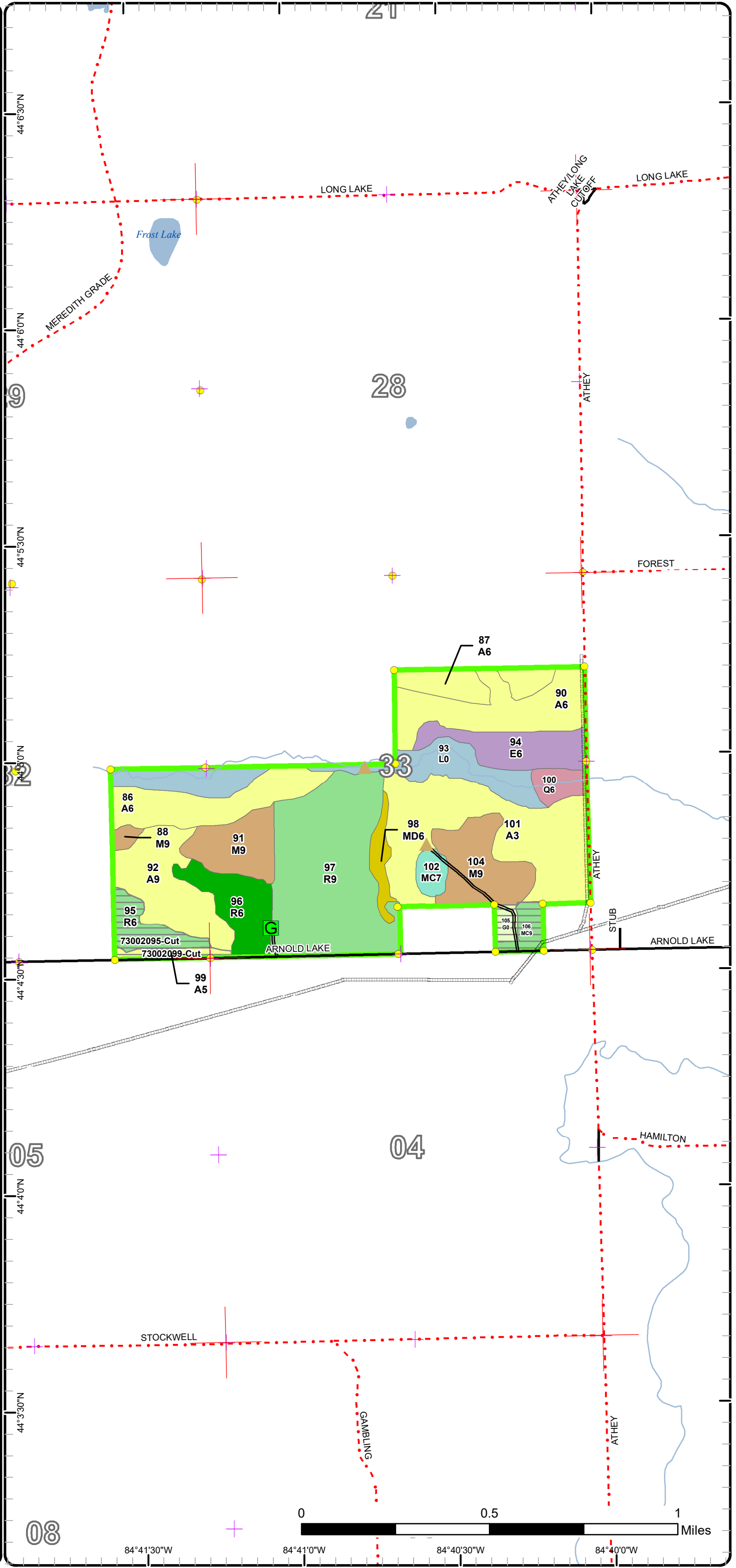


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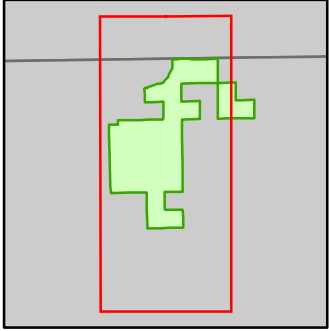
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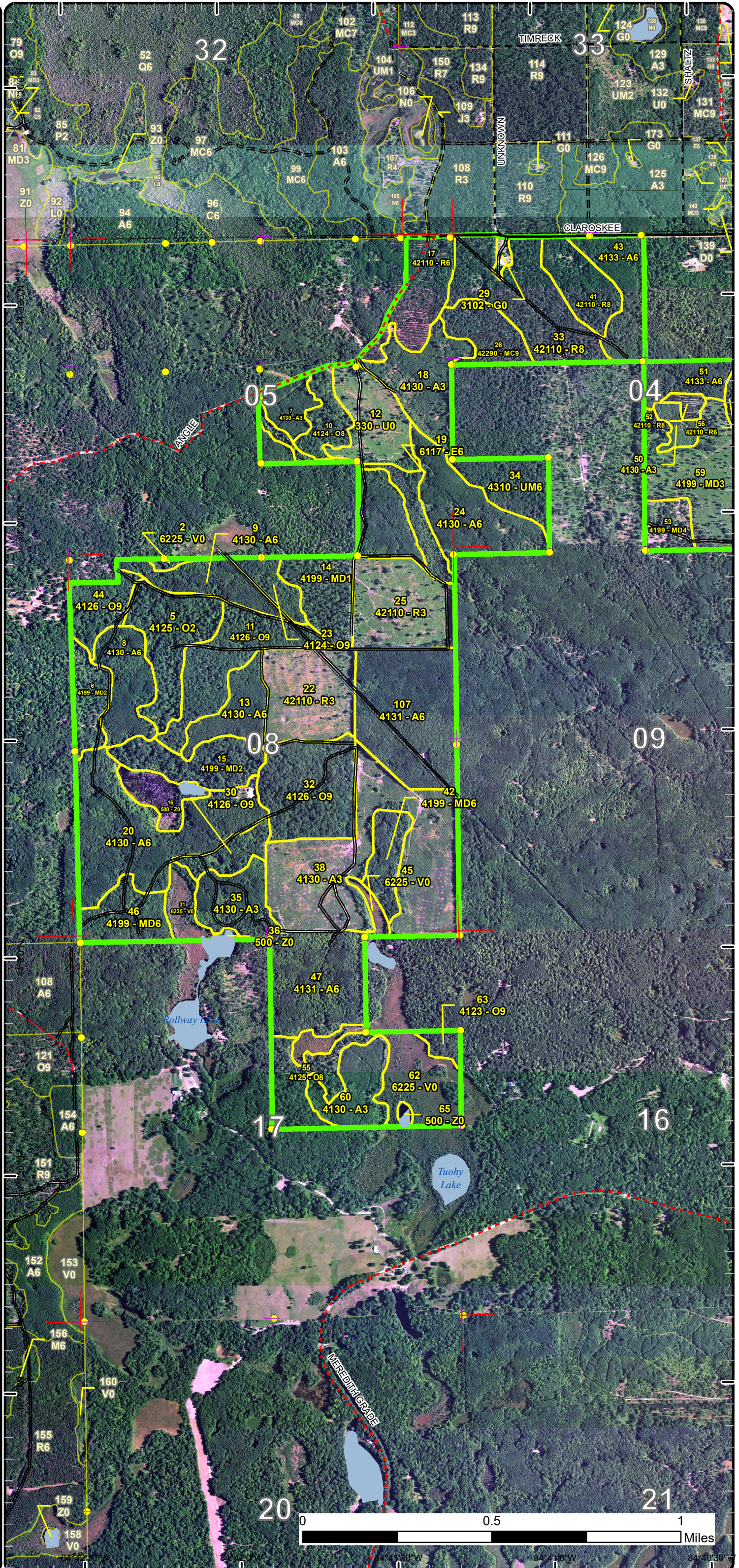
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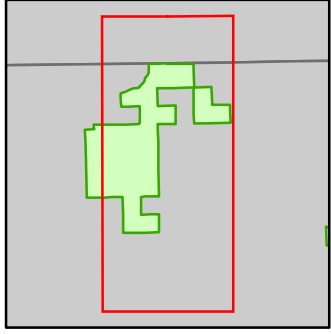


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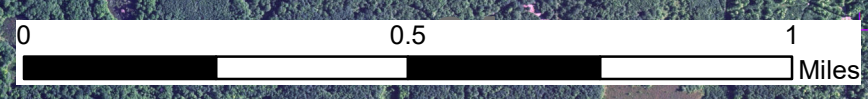
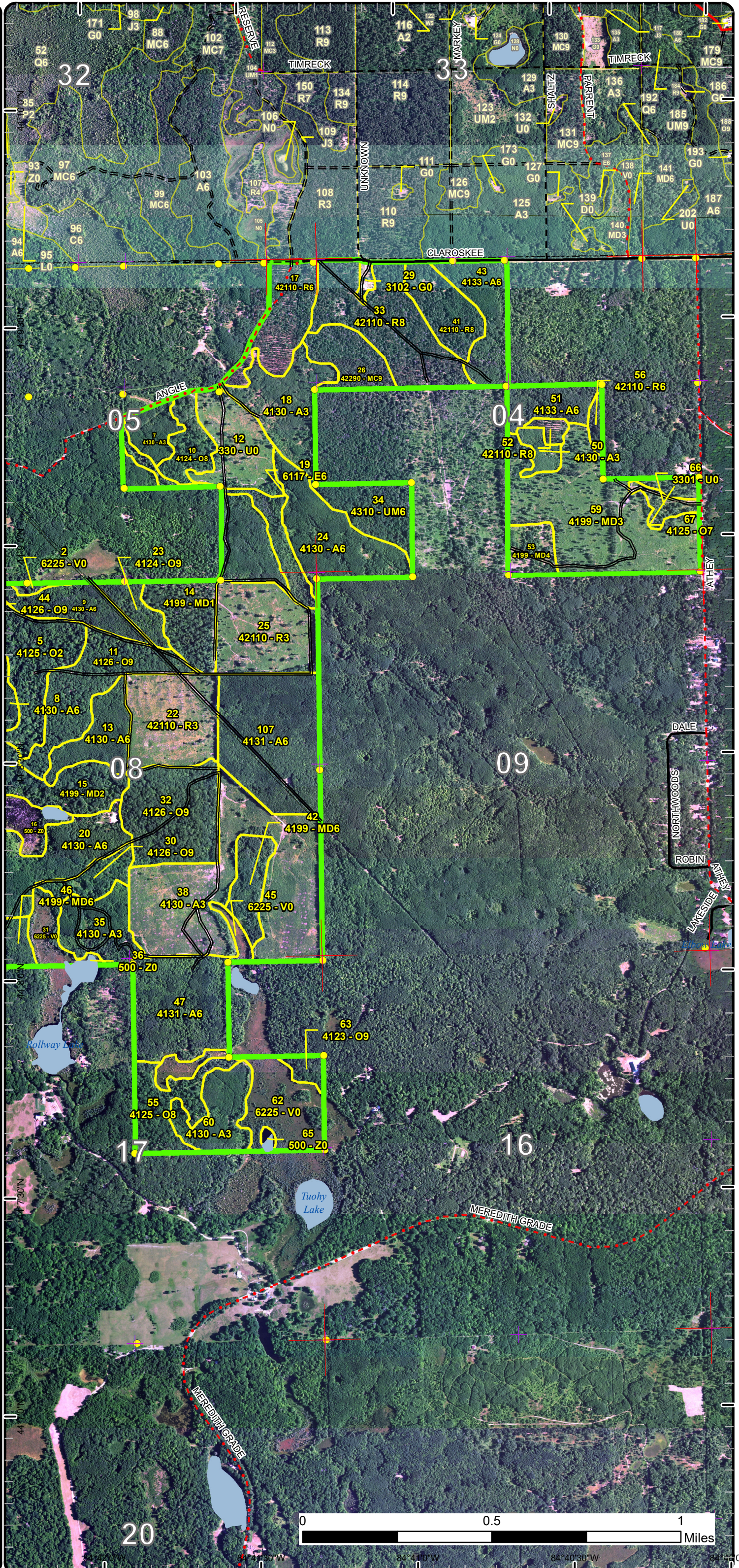


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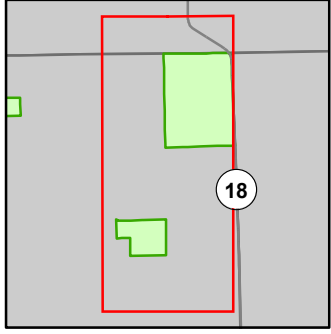
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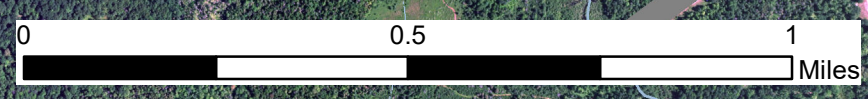
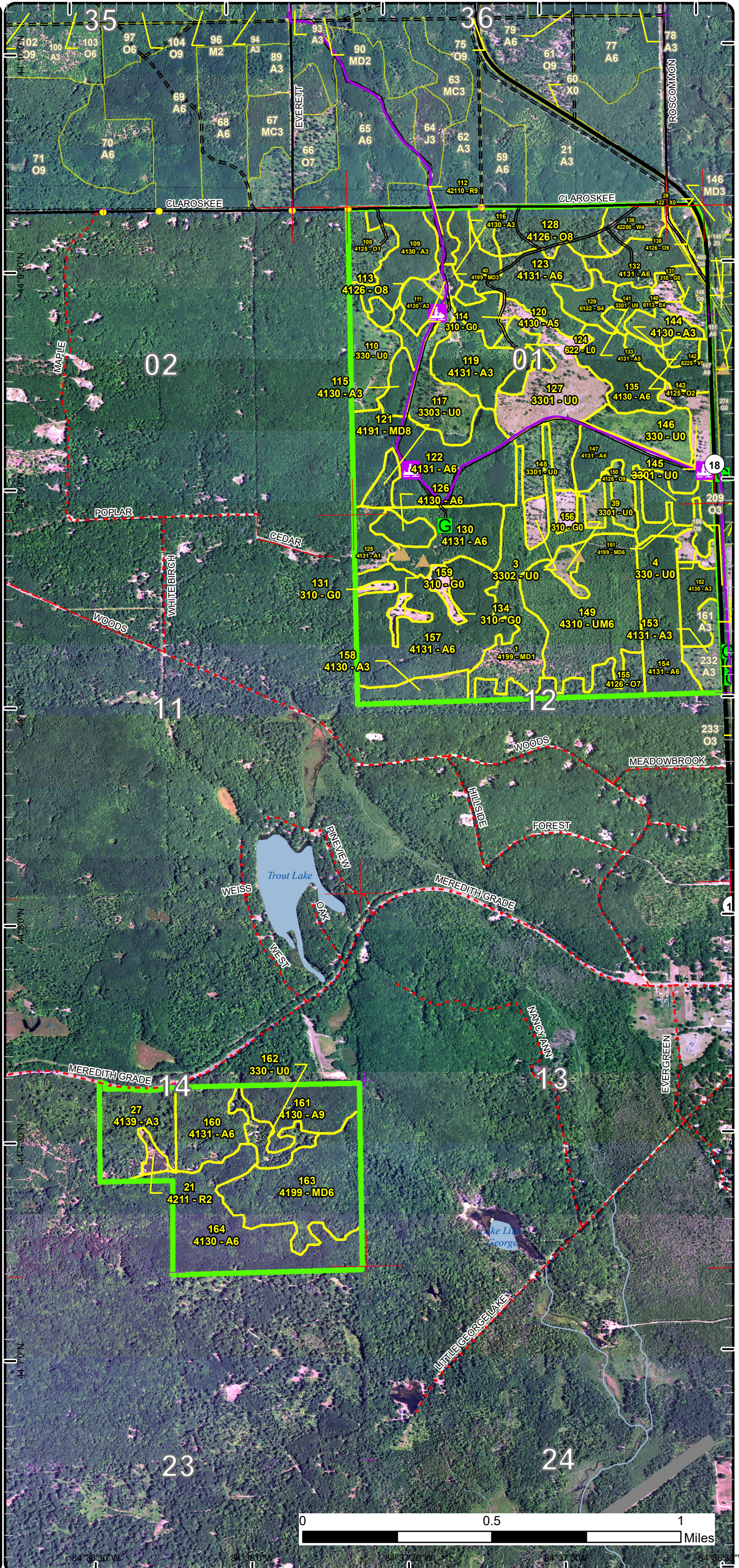
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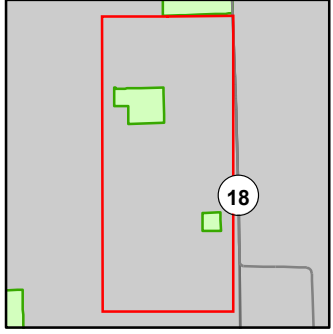
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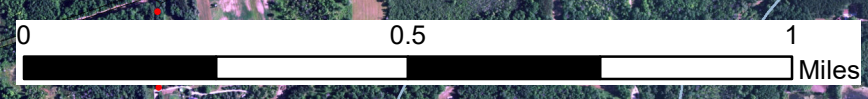
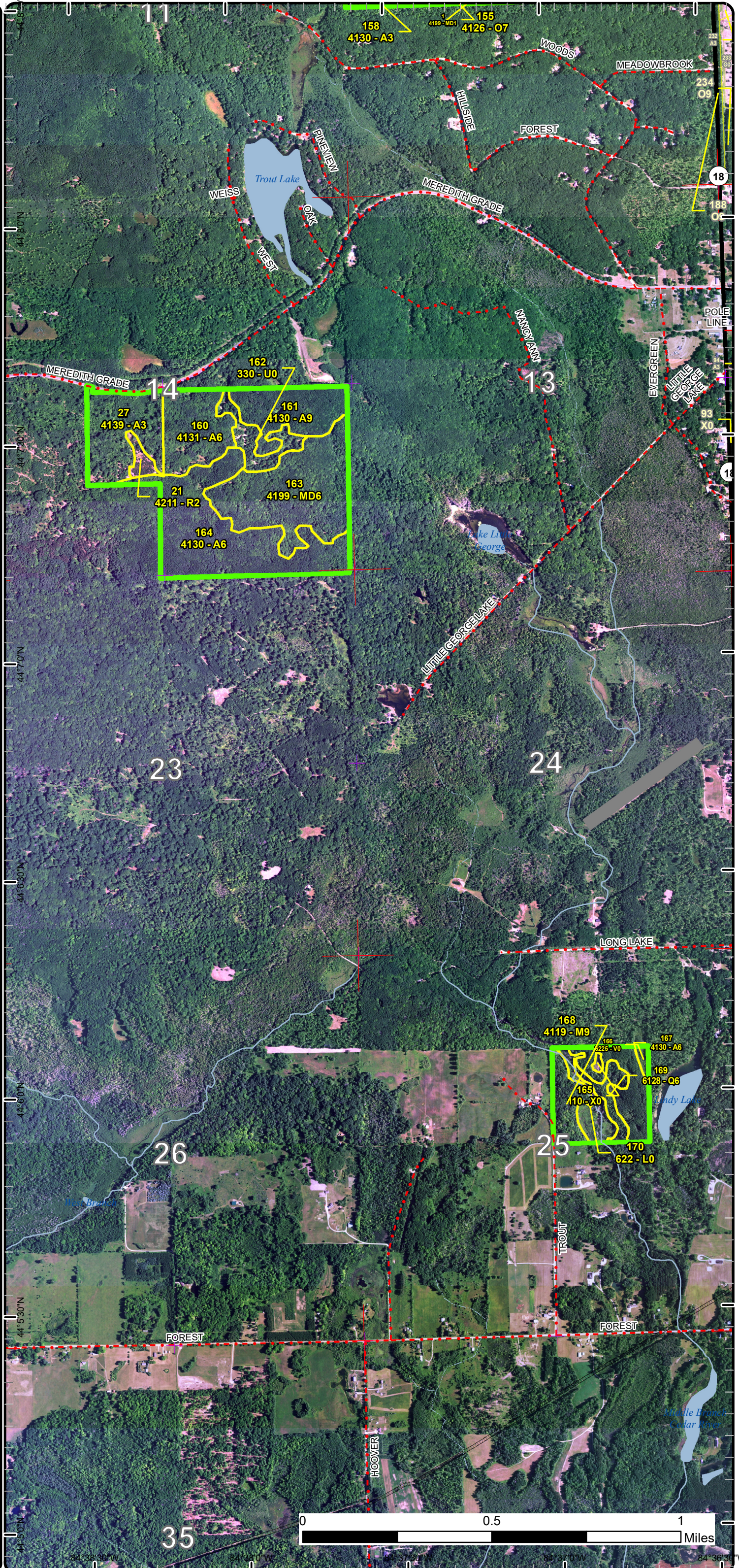
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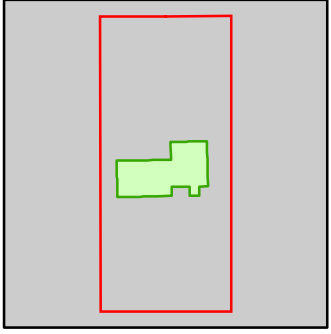


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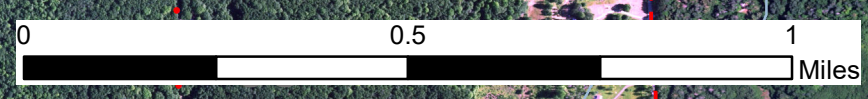
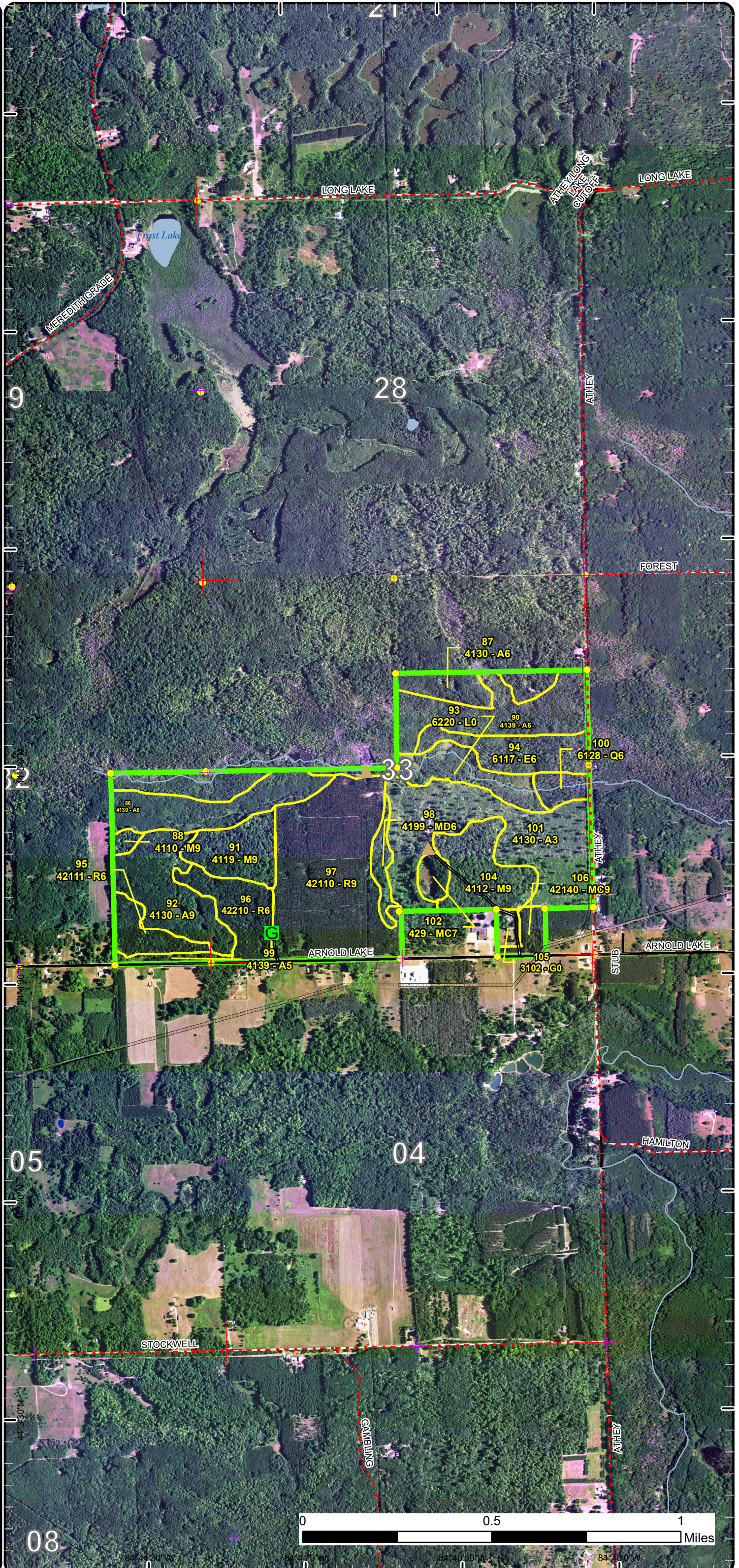


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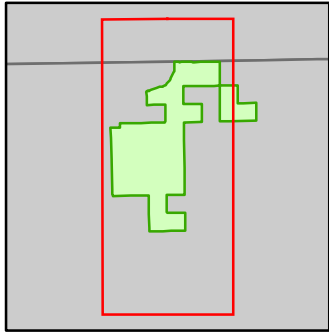


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- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub

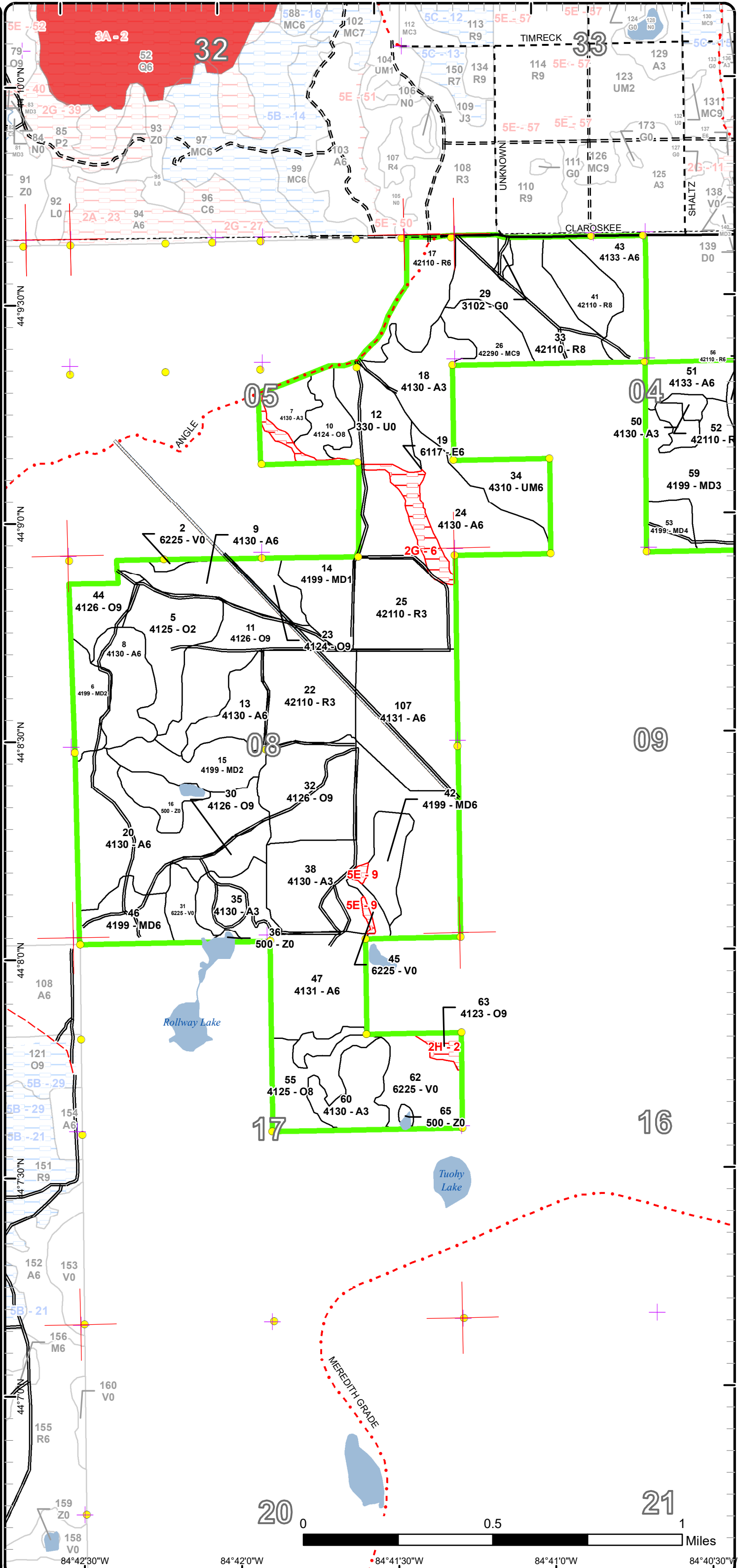


Special Conservation Areas

Compartment: 2
 T20N R03W Sec. 01,05,08,12,14
 T20N R03W Sec. 17,25,32,33
 County: Clare
 Unit: Gladwin
 Mgmt Area: Upper Muskegon
 YOE: 2023
 Acres: 2678.1 GIS Calculated
 Examiner: Colton Behrmann
 Map Revised: 6/2/2021
 Map Phase: Web-Post

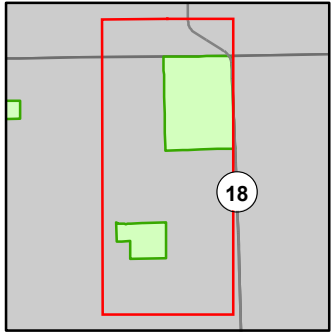


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- 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)
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas

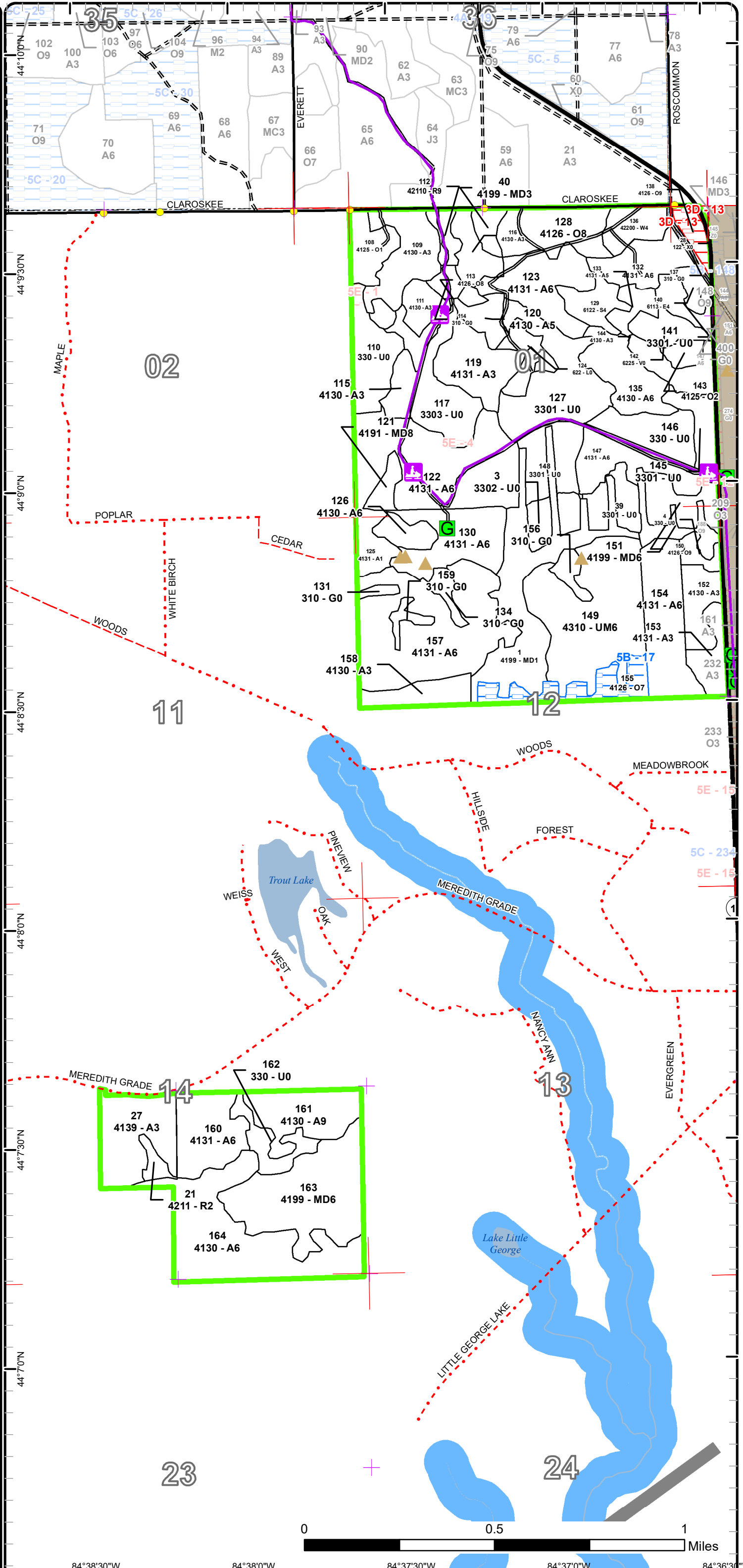


Special Conservation Areas

Compartment: 2
 T20N R03W Sec. 01,05,08,12,14
 T20N R03W Sec. 17,25,32,33
 County: Clare
 Unit: Gladwin
 Mgmt Area: Upper Muskegon
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 Map Revised: 6/2/2021
 Map Phase: Web-Post



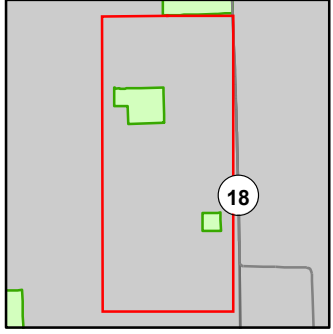
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- G Gate
- Pipeline
- Airports
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 3D: Recreational / Scenic values
- Stand Boundaries
- Dedicated Management Areas
- Cold Water Streams
- High Priority Trout Stream Buffer



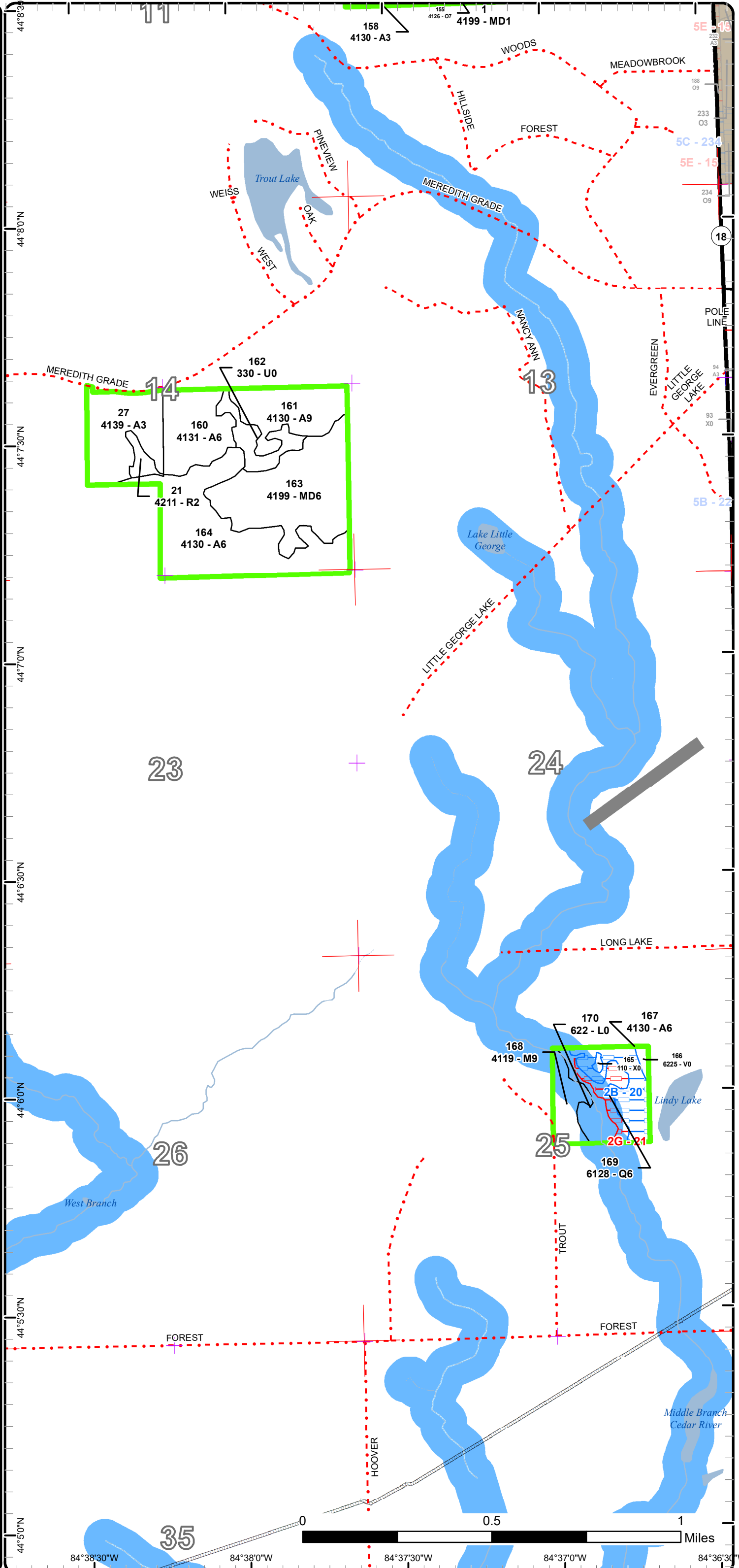
84°38'30"W 84°38'0"W 84°37'30"W 84°37'0"W 84°36'30"W

Special Conservation Areas

Compartment: 2
 T20N R03W Sec. 01,05,08,12,14
 T20N R03W Sec. 17,25,32,33
 County: Clare
 Unit: Gladwin
 Mgmt Area: Upper Muskegon
 YOE: 2023
 Acres: 2678.1 GIS Calculated
 Examiner: Colton Behrmann
 Map Revised: 6/2/2021
 Map Phase: Web-Post

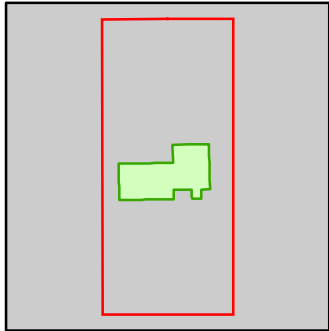


- Miris Corners
- + Remonumented Section Corners
- Counties
- Federal / State Highway
- County - Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Airports
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- Stand Boundaries
- Dedicated Management Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

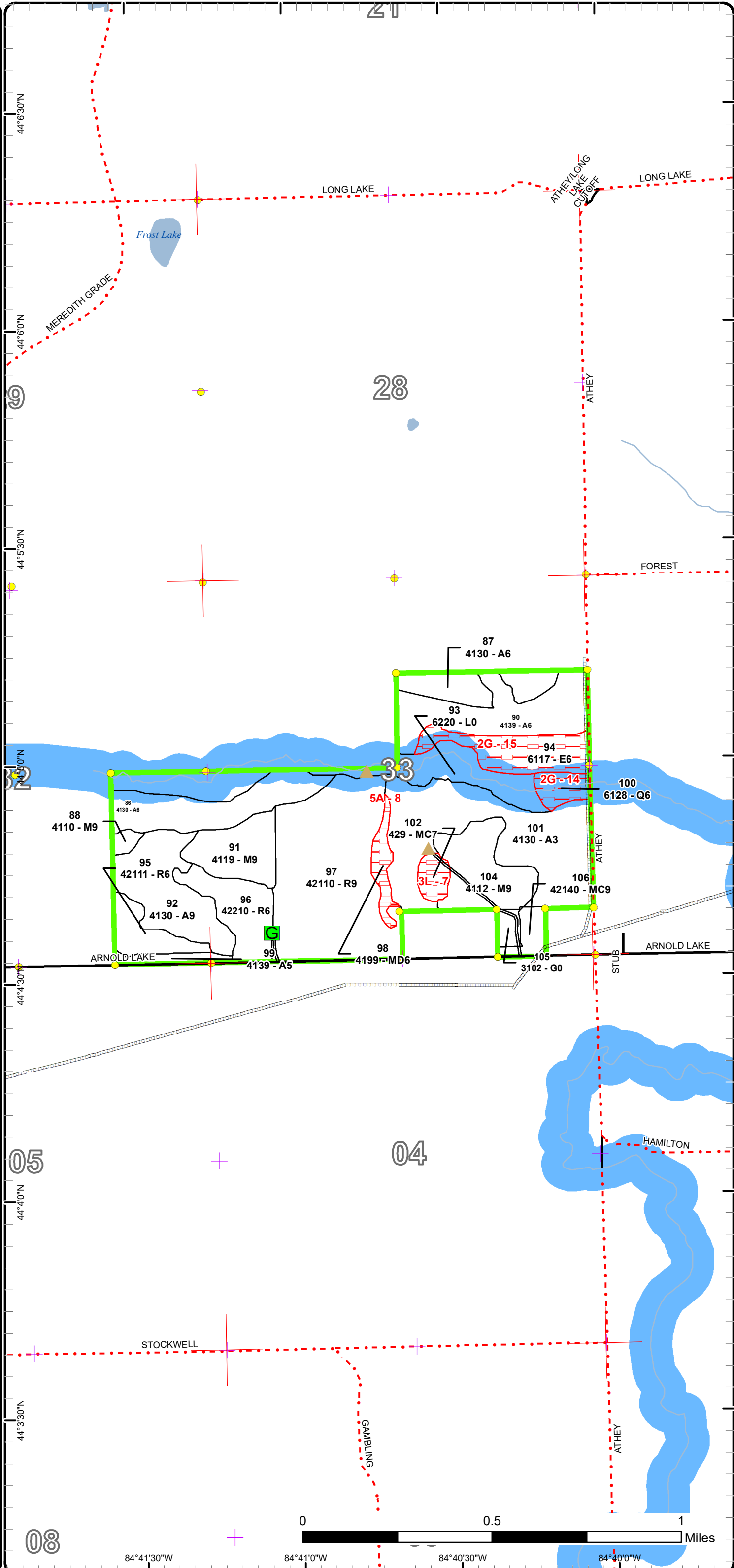


Special Conservation Areas

Compartment: 2
 T20N R03W Sec. 01,05,08,12,14
 T20N R03W Sec. 17,25,32,33
 County: Clare
 Unit: Gladwin
 Mgmt Area: Upper Muskegon
 YOE: 2023
 Acres: 2678.1 GIS Calculated
 Examiner: Colton Behrmann
 Map Revised: 6/2/2021
 Map Phase: Web-Post



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- County - Gravel Road
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- G Gate
- Pipeline
- Compartment Boundary
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3L: Other wildlife concerns
- 5A: Not able to obtain desirable regeneration
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class

Gladwin Mgt. Unit

Compartment 2

Year of Entry 2023

Colton Behrmann : Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	184	188	195	398	170	103	0	0	0	0	0	0	0	0	0	0	0	1238
Bog	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Herbaceous Openland	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Low-Density Trees	185	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	185
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	14
Lowland Deciduous	0	0	0	0	0	23	0	16	0	0	0	0	0	0	0	0	0	4	43
Lowland Shrub	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Lowland Spruce/Fir	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	10
Mixed Upland Deciduous	0	0	116	78	31	5	62	0	0	0	7	0	0	0	0	0	0	0	298
Natural Mixed Pines	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	17
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	49	62
Oak	0	0	15	33	0	0	0	0	66	108	43	0	0	0	0	0	0	0	264
Planted Mixed Pines	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	7
Red Pine	0	75	3	0	0	0	107	68	0	47	0	0	0	0	0	0	0	0	299
Upland Conifers	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6
Upland Mixed Forest	0	0	57	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	77
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
White Pine	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	10
Total	336	259	379	306	429	209	272	108	36	113	108	63	14	0	0	0	0	53	2681



Report 2 – Treatment Summary

Gladwin Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 2

Total Compartment Acres: 2,678

Commercial Harvest - 444
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	164	0	0	0	0	0	0	0	0	164
Herbaceous Openland	4	0	0	0	0	0	0	0	0	4
Natural Mixed Pines	17	0	0	0	0	0	0	0	0	17
Oak	188	0	0	0	0	0	0	0	0	188
Planted Mixed Pines	7	0	0	0	0	0	0	0	0	7
Red Pine	59	0	0	0	5	0	0	0	0	64
Total	439	0	0	0	5	0	0	0	0	444

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	444	0	23	0	0	45	6	0	13	530
Next Step	0	170	227	0	51	181	671	0	0	1299
Total	444	170	249	0	51	227	676	0	13	1829



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Treatments:

10	73002010-Cut	13.3	4124 - Red with White Oak	Sawtimber Medium	86	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in DBH. Follow standard island retention. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Naturally regenerated stand of mixed deciduous including aspen, oak and red maple meeting minimum stocking standards. <u>Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											
11	73002011-Cut	35.8	4126 - White, Black, N. Pin Oak	Sawtimber Well	91	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in DBH. Follow standard island retention. If regeneration fails, conduct site preparation activities and plant to a fully stocked red pine plantation. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Intermediate); SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Planting, Replant; <u>Treatments:</u> Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Monitoring, Artificial Regen(1yr); Monitori <u>Acceptable</u> Naturally regenerated stand of mixed oak, red maple and aspen meeting minimum stocking standards. <u>Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											
23	73002023-Cut	9.3	4124 - Red with White Oak	Sawtimber Well	98	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in DBH. No retention due to stand size & narrow shape. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Naturally regenerated stand of mixed oak, red maple and aspen meeting minimum stocking standards. <u>Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
26 73002026-Cut	17.4	42290 - Natural Mixed Pine	Sawtimber Well	65	141-170	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in DBH. Follow standard island retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> A naturally regenerated stand of mixed deciduous including oak, aspen and maple with white pine meeting minimum stocking standards.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
30 73002030-Cut	11.3	4126 - White, Black, N. Pin Oak	Sawtimber Well	94	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in DBH. Follow standard island retention guidelines, focusing on boundary retention to facilitate future silviculture activities.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; SitePrep, Trenching; Planting, Initial Plant; Planting, Replant; Monitoring,</p> <p><u>Treatments:</u> Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Fully stocked planted red pine plantation.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
32 73002032-Cut	40.6	4126 - White, Black, N. Pin Oak	Sawtimber Well	86	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in DBH. Follow standard island retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Naturally regenerated stand of mixed oak, red maple and aspen meeting minimum stocking standards.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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33	73002033-Cut	46.7	42110 - Planted Red Pine	Sawtimber Medium	82	81-110	Harvest	Clearcut with Retention	4122 - Oak, Pine	Even-Aged	No
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Prescription Cut all trees 2 inches and greater in DBH. Follow standard island retention. Focus island retention around heavy oak regeneration pockets.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A naturally regenerated stand of oak and mixed red & white pine meeting minimum stocking standards.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

44	73002044-Cut	15.3	4126 - White, Black, N. Pin Oak	Sawtimber Well	93	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Cut all trees 2 inches and greater in DBH. Follow standard island retention. Focus retention along boundaries to facilitate future silvicultural activities. If stand fails to regenerate, conduct site preparation and plant to a fully stocked red pine plantation.
Specs:

Next Step Monitoring, Natural Regen (Intermediate); SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Planting, Initial Plant; Planting, Replant; Monitoring, Artificial Regen(1yr); Monitori

Acceptable Naturally regenerated stand of mixed oak, red maple and aspen meeting minimum stocking standards.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

55	73002055-Cut	21.9	4125 - Black, N. Pin Oak	Sawtimber Medium	94	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Cut all trees 2 inches and greater in DBH. Follow standard island retention. Focus retention around oak regeneration.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Naturally regenerated stand of mixed oak, red maple and aspen meeting minimum stocking standards.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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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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95	73002095-Cut	12.6	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	61	171-200	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Specs: Cut all trees 2 inches and greater in DBH. Follow standard island retention, focusing on boundary retention to facilitate future silvicultural practices.

Next Step Treatments: SitePrep, Trenching; SitePrep, Roller Chopping; Planting, Initial Plant; Planting, Replant; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: A fully stocked planted red pine plantation.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

99	73002099-Cut	5.0	4139 - Aspen, Mixed Deciduous	Poletimber Medium	46	Unspecified	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Specs: Cut all trees 2 inches and greater in DBH. No retention due to stand size and shape.

Next Step Treatments: SitePrep, Trenching; SitePrep, Roller Chopping; Planting, Initial Plant; Planting, Replant; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: A fully stocked red pine plantation.

Other Comment: Plant to red pine with adjacent stand (95). Buffer lowland pockets when trenching and planting.

Site Condition

Proposed Start Date: 10/1 /2022

105	73002105-Cut	3.9	3102 - Grass	Nonstocked		Unspecified	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Specs: Cut all trees 2 inches and greater in DBH. No retention due to stand size & lack of canopy.

Next Step Treatments: SitePrep, Trenching; SitePrep, Roller Chopping; Planting, Initial Plant; Planting, Replant; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: A fully stocked planted red pine plantation.

Other Comment: Trench and plant with adjacent stand (106).

Site Condition

Proposed Start Date: 10/1 /2022

106	73002106-Cut	6.7	42140 - Planted Mixed Pine	Sawtimber Well	65	141-170	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Specs: Cut all trees 2 inches and greater in DBH. Follow standard island retention. Focus on boundary retention to facilitate future silvicultural activities.

Next Step Treatments: SitePrep, Trenching; SitePrep, Roller Chopping; Planting, Initial Plant; Planting, Replant; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: A fully stocked planted red pine plantation.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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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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107 73002107-Cut	58.1	4131 - Aspen, Oak	Poletimber Well	50	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Cut all trees 2 inches and greater in DBH. Follow standard island retention. Add grouse spec.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Naturally regenerated aspen stand with oak and maple meeting minimum stocking standards.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

112 73002112-Cut	5.0	42110 - Planted Red Pine	Sawtimber Well	61	171-200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Systematic thinning of red pine down to 110-130 basal area. Target poor form & suppressed red pine. Add snowmobile trail spec.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

113 73002113-Cut	5.6	4126 - White, Black, N. Pin Oak	Sawtimber Medium	104	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Cut all trees 2 inches and greater in DBH. No retention due to narrow stand & small acreage. Add snowmobile trail spec.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Naturally regenerated stand of oak, aspen & red maple meeting minimum stocking standards.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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
128	73002128-Cut	21.8	4126 - White, Black, N. Pin Oak	Sawtimber Medium	101	51-80	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in DBH. Follow standard island retention. Focus retention around pockets of higher oak sapling densities. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Naturally regenerated stand of oak, aspen, red maple and mixed conifer. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											
150	73002150-Cut	12.8	4126 - White, Black, N. Pin Oak	Sawtimber Well	88	81-110	Harvest	Clearcut with Retention	4121 - Oak, Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in DBH. Follow standard island retention guidelines. Add snowmobile trail spec. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> A naturally regenerated stand of northern pine oak, white oak and aspen meeting minimum stocking standards. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											
160	73002160-Cut	22.4	4131 - Aspen, Oak	Poetimber Well	54	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in DBH. Follow standard island retention. Focus retention around areas with higher percentage of canopy oak. Add grouse spec. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Naturally regenerated stand of aspen with oak and red maple meeting minimum stocking standards. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 1 /1 /2021</p>											
161	73002161-Cut	22.6	4130 - Aspen	Sawtimber Well	54	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in DBH. Follow standard island retention. Add grouse spec. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Naturally regenerated stand of aspen with oak and red maple meeting minimum stocking standards. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 1 /1 /2021</p>											



Standard

Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
164	73002164-Cut	55.4	4130 - Aspen	Poletimber Well	48	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in DBH. Follow standard island retention. Add grouse spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Naturally regenerated aspen stand with oak and red maple meeting minimum stocking standards. <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 1 /1 /2021</p>											

Approved Treatments:

4	73002001_spray	3.9	330 - Low-Density Trees	Nonstocked	0	Immature	Pesticide	ERROR	4125 - Black, N. Pin Oak	Even-Aged	No
<p><u>Prescription</u> Spray to control hardwood competition <u>Specs:</u> <u>Next Step</u> Planting, Replant; Monitoring, Artificial Regen(3yr) <u>Treatments:</u> <u>Acceptable Regen:</u> Add a next step regeneration plan as follows. Three years following harvest check stands for regeneration and if needed to control red maple dominance, site prep (Rx burn or roller chop) followed by trenching and planting red pine. A mix of red pine, oak and scattered maple regeneration is acceptable. Monitor regeneration until adequate regeneration is achieved. The red pine will be utilized to nurse oak regeneration as it develops beneath the red pine over time. <u>Other Comment:</u> Percent to Treat = 100% <u>Site Condition</u> <u>Proposed Start Date:</u> 1 /1 /2022</p>											
12	73002012-Plant	22.5	330 - Low-Density Trees	Nonstocked	0	Immature	Planting	Replant	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> As per year three regeneration check by FO replant. <u>Specs:</u> <u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Treatments:</u> <u>Acceptable Regen:</u> A mix of planted red pine and natural mixed deciduous. <u>Other Comment:</u> Percent to Treat = 100% <u>Site Condition</u> <u>Proposed Start Date:</u> 1 /1 /2021</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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67	73002067.27_Monitor	5.6	4125 - Black, N. Pin Oak	Sawtimber	97	1-50	Monitoring	Natural Regen (Intermediate)	4125 - Black, N. Pin Oak	Two-Aged	No
----	---------------------	-----	--------------------------	-----------	----	------	------------	------------------------------	--------------------------	----------	----

Prescription Monitor natural regeneration until adequate regeneration is acceptable.

Specs:

Next Step

Treatments:

Acceptable A mix of oak, red maple, aspen and white pine is acceptable.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 1 /1 /2024

127	73002127-Spray	29.3	3301 - Low Density Deciduous Trees	Nonstocked	0		Pesticide	ERROR	4126 - White, Black, N. Pin Oak	Even-Aged	No
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Prescription Spray to control hardwood competition

Specs:

Next Step Planting, Replant; Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Add a next step regeneration plan as follows. Three years following harvest check stands for regeneration and if needed to control red maple dominance, site prep (Rx burn or roller chop) followed by trenching and planting red pine. A mix of red pine, oak and scattered maple regeneration is acceptable. Monitor regeneration until adequate regeneration is achieved. The red pine will be utilized to nurse oak regeneration as it develops beneath the red pine over time.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 1 /1 /2022

131	73002131.33_NF	1.7	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		No
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Prescription WLD treatments for opening maintenance which may include cultivating, planting of annual cover types, applications of lime, applications of herbicide and mowing.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 1 /1 /2023



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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134	73002134.32_ NF	3.9	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass	No
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Prescription WLD treatments for opening maintenance which may include cultivating, planting of annual cover types, applications of lime, applications of herbicide and mowing.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 1 /1 /2023

141	73002141- Spray	3.7	3301 - Low Density Deciduous Trees	Nonstocked	0	Immature	Pesticide	ERROR	4126 - White, Black, N. Pin Oak	Even-Aged	No
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Prescription Spray to control hardwood competition
Specs:

Next Step Planting, Replant; Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable Add a next step regeneration plan as follows. Three years following harvest check stands for regeneration and if needed to control red maple
Regen: dominance, site prep (Rx burn or roller chop) followed by trenching and planting red pine. A mix of red pine, oak and scattered maple regeneration is acceptable. Monitor regeneration until adequate regeneration is achieved. The red pine will be utilized to nurse oak regeneration as it develops beneath the red pine over time.

Other Percent to Treat = 100%
Comment:

Site Condition

Proposed Start Date: 1 /1 /2022

145	73002145- Spray	8.5	3301 - Low Density Deciduous Trees	Nonstocked	0		Pesticide	ERROR	4126 - White, Black, N. Pin Oak	Even-Aged	No
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Prescription Spray to control hardwood competition
Specs:

Next Step Planting, Replant; Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable Add a next step regeneration plan as follows. Three years following harvest check stands for regeneration and if needed to control red maple
Regen: dominance, site prep (Rx burn or roller chop) followed by trenching and planting red pine. A mix of red pine, oak and scattered maple regeneration is acceptable. Monitor regeneration until adequate regeneration is achieved. The red pine will be utilized to nurse oak regeneration as it develops beneath the red pine over time.

Other Percent to Treat = 100%
Comment:

Site Condition

Proposed Start Date: 1 /1 /2022



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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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156	73002156.30_ NF	4.2	310 - Herbaceous Openland			Nonstocked	NonForestMgt	Other - Specify	3102 - Grass	No
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Prescription WLD treatments for opening maintenance which may include cultivating, planting of annual cover types, applications of lime, applications of herbicide and mowing.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 1 /1 /2023

159	73002159.31_ NF	3.1	310 - Herbaceous Openland			Nonstocked	NonForestMgt	Other - Specify	3102 - Grass	No
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Prescription WLD treatments for opening maintenance which may include cultivating, planting of annual cover types, applications of lime, applications of herbicide and mowing.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 1 /1 /2023

Total Treatment 529.9
Acreage Proposed:

Report 4 – Site Conditions

Gladwin Mgt. Unit

Colton Behrmann : Examiner

Compartment: 2

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
1238	1221	15	2
57	57	0	0
25	25	0	0
185	182	0	3
14	0	0	14
43	4	0	38
52	52	0	0
10	10	0	0
297	290	0	7
17	17	0	0
62	62	0	0
266	241	15	10
7	7	0	0
300	300	0	0
6	0	0	6
77	77	0	0
2	1	0	0
15	15	0	0
11	11	0	0
2,681	2,572	30	79
	96%	1%	3%

Dominant Site Conditions

	Availability for Management			Dominant Site Conditions								
	Acres Available	Acres Available With Condition	Acres Not Available	2B	5B	2G	2H	3D	3L	5A	5E	
1238	1221	15	2	Aspen	15		0					2
57	57	0	0	Bog				0				
25	25	0	0	Herbaceous Openland								
185	182	0	3	Low-Density Trees								3
14	0	0	14	Lowland Conifers			14					
43	4	0	38	Lowland Deciduous			38					
52	52	0	0	Lowland Shrub	0		0					
10	10	0	0	Lowland Spruce/Fir								
297	290	0	7	Mixed Upland Deciduous		0					7	
17	17	0	0	Natural Mixed Pines								
62	62	0	0	Northern Hardwood								
266	241	15	10	Oak		15		4	5			
7	7	0	0	Planted Mixed Pines								
300	300	0	0	Red Pine								
6	0	0	6	Upland Conifers						6		
77	77	0	0	Upland Mixed Forest								
2	1	0	0	Urban				0				
15	15	0	0	Water								
11	11	0	0	White Pine								
2,681	2,572	30	79	Total Forested Acres	15	15	52	4	5	6	7	5
	96%	1%	3%	Relative Percent								

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit

Colton Behrmann : Examiner

Compartment: 2

Year of Entry: 2023

6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3L: Other wildlife concerns	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small stand with a bog in the center. Stand used heavily by wildlife.							
8	Unavailable	5A: Not able to obtain desirable regeneration	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Recommend to treat stand with adjacent stands in future. Current stand structure, size & shape will make regeneration difficult.							
9	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3D: Recreational / Scenic values	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit

Colton Behrmann : Examiner

Compartment: 2

Year of Entry: 2023

15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Available	2B: Unknown if access through adjacent landowner(s) is possible	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments				
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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 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.
HCVA	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
1	4199 - Other Mixed Upland Deciduous	Sapling Poor	44.7	26	Immature	N/A	Clear cut 1993 - 1996. Red pine stand to east was cut at the same time. This stand regenerated naturally with an upland deciduous mix.																																																								
<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>Red Maple</td><td>20</td><td>Sapling</td><td>3</td><td>25</td></tr> <tr><td>White Oak</td><td>8</td><td>Sapling</td><td>3</td><td>25</td></tr> <tr><td>Quaking Aspen</td><td>10</td><td>Sapling</td><td>3</td><td>25</td></tr> <tr><td>Northern Pin Oak</td><td>35</td><td>Sapling</td><td>3</td><td>26</td></tr> <tr><td>Red Pine</td><td>5</td><td>Sapling</td><td>2</td><td>18</td></tr> <tr><td>Jack Pine</td><td>2</td><td>Sapling</td><td>2</td><td>18</td></tr> <tr><td>Pin Cherry</td><td>20</td><td>Sapling</td><td>3</td><td>25</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	20	Sapling	3	25	White Oak	8	Sapling	3	25	Quaking Aspen	10	Sapling	3	25	Northern Pin Oak	35	Sapling	3	26	Red Pine	5	Sapling	2	18	Jack Pine	2	Sapling	2	18	Pin Cherry	20	Sapling	3	25	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Red Pine</td><td>Medium</td><td>< 5 feet</td><td>Sapling</td></tr> <tr><td>Deciduous Shrubs</td><td>Low</td><td>5 - 10 feet</td><td>Tall Shrub</td></tr> <tr><td>Cherry (spp.)</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Oak (spp.)</td><td>Low</td><td>< 5 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	Medium	< 5 feet	Sapling	Deciduous Shrubs	Low	5 - 10 feet	Tall Shrub	Cherry (spp.)	Low	5 - 10 feet	Sapling	Oak (spp.)	Low	< 5 feet	Sapling
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2	6225 - Bog	Nonstocked	1.7			No	Most of this bog is located on private land.																																																								
3	3302 - Low Density Conifer Trees	Nonstocked	8.7	0	Unspecified	4211 - Planted Red Pine	Seed tree harvest spring 2104. Parts of stand trenched and planted to red pine. Trenched 2016 and planted 5/2017. FTP C 73-979. Main competition is oak. Oak is about 2-4' tall, browsed heavily by deer.																																																								
4	330 - Low-Density Trees	Nonstocked	4.1	0	Immature	4211 - Planted Red Pine	Parts of stand trenched and planted to red pine. Trenched 2016 and planted 5/2017. FTP C 73-979. Stand planned for release spray in FY 21.																																																								
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5	4125 - Black, N. Pin Oak	Sapling Medium	32.7	25	Immature	N/A	Harvest in 1996 - 10 to 20 sq ft of oak was left. Decent understory of oak, maple and aspen. Coding stand for the understory not the seed trees that were left. The seed trees that were left are not worth harvesting (low volume and poor quality). They will provide seed / mast for yrs to come and future course woody deries.																																																								
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6	4199 - Other Mixed Upland Deciduous	Sapling Medium	14.7	16	Immature	N/A	Clearcut 2005. All white pine and 1 -2 mature oak/ac were left. Thick oak regeneration in areas where canopy was completely removed. Not enough canopy oak & pine to make a harvest worthwhile.																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
7	4130 - Aspen	Sapling Well	14.2	16	Immature	N/A	Clearcut 2005 - very nice regeneration. Stand is split by lowland drainage.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		5	Sapling	2	16				
Red Oak		5	Sapling	2	16				
Quaking Aspen		20	Sapling	2	16				
Bigtooth Aspen		70	Sapling	2	16				
8	4130 - Aspen	Poletimber Well	23.5	27	Immature	N/A	Clearcut 1994. Fully stocked aspen stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		15	Pole/Sapling	5	27	Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen		70	Pole/Sapling	5	27				
Northern Pin Oak		15	Pole	6	27				
9	4130 - Aspen	Poletimber Well	19.6	36	81-110	N/A	Clearcut 1985.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		15	Pole	6	36	Red Maple	High	10 - 20 feet	Sapling
Bigtooth Aspen		68	Pole	7	36	Red Oak	Trace	5 - 10 feet	Sapling
Red Oak		15	Pole	8	36	Bigtooth Aspen	Medium	Variable	Sapling
Black Cherry		2	Pole	7					
10	4124 - Red with White Oak	Sawtimber Medium	13.3	86	51-80	N/A	Harvest 2005. All red maple, aspen and marked oak cut. Cruised residual from 2005 timber sale was 50 sq ft. Very dense understorey of aspen and red maple. Healthy good quality red oak. Basal area now ranges from 50-100 sq. ft. Oak regen is being browsed hard by deer.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		80	Log	16	86	Red Maple	High	10 - 20 feet	Sapling
White Oak		20	Log	16		Aspen (spp.)	High	10 - 20 feet	Sapling
						Oak (spp.)	Low	Variable	Sapling
						White Pine	Low	10 - 20 feet	Sapling
11	4126 - White, Black, N. Pin Oak	Sawtimber Well	35.8	91	51-80	N/A	Selection harvest in 2005. Cruised residual from 2005 timber sale was 65 sq ft. Areas of red maple poles (pockets of Mr6). Overall the understorey is not very well stocked. Stand is averaging 80-100 BA. Log sized oak that will need to be treated. Oak is starting to show age.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		15	Pole/Log	10		Red Maple	Medium	Variable	Sapling
White Oak		30	Log	14	91	Bigtooth Aspen	Low	10 - 20 feet	Sapling
Bigtooth Aspen		15	Pole/Log	10		Northern Pin Oak	Low	5 - 10 feet	Sapling
Northern Pin Oak		39	Log	14	91				
Red Pine		1	Log	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
12	330 - Low-Density Trees	Nonstocked	26.4	0	Immature	42110 - Planted Red Pine	Roller chopped 2016, Trenched 2016, Planted to red pine 2017, Released spray 2018. FTP C73-944. 06/2019 Gallagher, treatment update. Replant 05/2019 Seed Lot MIO336, 1 - 0. Year three regeneration check recommends replant by FO 10/18/2019.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Red Pine	Medium	< 5 feet	Sapling					
								Red Oak	Medium	< 5 feet	Sapling					
								White Pine	Low	< 5 feet	Sapling					
								Red Maple	Medium	5 - 10 feet	Sapling					
								Red Oak	Low	>20 feet	Log					
White Pine	Low	>20 feet	Pole													
13	4130 - Aspen	Poletimber Well	18.5	27	51-80	N/A	Clearcut 1994. Stand has come back very well & is already pushing 6-7" DBH.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Red Maple	15	Pole/Sapling	5	27	Northern Pin Oak	Low	5 - 10 feet	Sapling
								Bigtooth Aspen	70	Pole/Sapling	5	27	White Pine	Low	5 - 10 feet	Sapling
								Northern Pin Oak	15	Pole	6	27	Witch Hazel	Low	5 - 10 feet	Tall Shrub
								14	4199 - Other Mixed Upland Deciduous	Sapling Poor	21.6	16	Immature	N/A	Clearcut 2005. 1- 2 live oak trees left/ac. All white pine left. Result is heavy to red maple in understory with oak in the northern end & more white pine poles in the southern end. Kept together as same stand due to size & treatment history.	
																Canopy Species
Red Maple	50	Sapling	1	16												
Bigtooth Aspen	20	Sapling	1	16												
Northern Pin Oak	20	Sapling	1	16												
White Pine	10	Sapling	2													
15	4199 - Other Mixed Upland Deciduous	Sapling Medium	24.0	25	1-50	N/A	Harvest in 1996. 25 - 35 sq ft of oak sawlogs were left. Red maple and oak regeneration is coming in nice. Basal area varies through stand (20-50 BA depending where at). Not worth trying to remove oak canopy due to dense regeneration.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Red Maple	15	Sapling/Pole	4		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
								White Oak	10	Log	12	96				
								White Oak	20	Sapling	3	25				
								Bigtooth Aspen	10	Sapling	4					
								Northern Pin Oak	15	Log	12	96				
Northern Pin Oak	30	Sapling	3	25												
16	500 - Water	Nonstocked	12.7			No	Flooded Q type. Standing dead trees still in stand.									
17	42110 - Planted Red Pine	Poletimber Well	25.0	65	81-110	N/A	Red pine plantation. Thinned 2014. Scattered hardwood and white pine mixed in (aspen and oak).									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Northern Pin Oak	15	Log	14		Northern Pin Oak	High	< 5 feet	Sapling
								White Pine	5	Pole/Log	8		Black Cherry	Low	5 - 10 feet	Sapling
								Red Pine	80	Pole/Log	9	65	White Pine	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
18	4130 - Aspen	Sapling Well	29.9	16	Immature	N/A	Clearcut 2005. Scattered white & red pine left. Stand filling in well.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	78	Sapling	2	16
Black/Red (Hybrid) Oak	15	Sapling	2	16
White Pine	5	Sapling	2	16
Red Pine	1	Log	15	
White Pine	1	Log	15	

19	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	15.7	70	81-110	N/A	Wet drainage. To wet for commercial harvest. Heavy wildlife use.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	40	Pole	5	70
Balsam Fir	10	Pole	5	
White Pine	20	Log/Pole	12	
Northern White Cedar	7	Pole	8	
Red Oak	8	Log	12	
Bigtooth Aspen	15	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	Variable	Tall Shrub
Red Maple	Medium	Variable	Sapling
White Pine	Medium	>20 feet	Sapling
Red Oak	Low	< 5 feet	Sapling

20	4130 - Aspen	Poletimber Well	65.8	36	111-140	N/A	Clearcut 1985. Pockets of aspen are log size, but most of stand is still pole. Stand could be harvested. Merged 2-3 acre "scramble area" stand into this aspen stand. Scramble area is located in the NE corner.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Pole	7	36
Bigtooth Aspen	70	Pole/Log	8	36
Northern Pin Oak	15	Pole	8	36

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	>20 feet	Sapling
Northern Pin Oak	Medium	5 - 10 feet	Sapling

21	4211 - Planted Red Pine	Sapling Medium	3.2	18	Immature	N/A	Land acquired in 2013. Red pine cored shows to be around 18 years old.
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22	42110 - Planted Red Pine	Sapling Well	37.1	5	Immature	N/A	Roller chopped 2016, Trenched 2016, Planted to red pine 2017, Released spray 2018. FTP C73-944. 06/2019 Gallagher, treatment update. Replant 05/2019 Seed Lot ONCR601, 1 - 0. 10/18/2019, Year 3 regeneration check by FO recommends no further treatments, stand meets fully stocked red pine criteria. Stand was release sprayed 2018. Log oak and pole white pine were left in stand. current red pine is 2-3' in height.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	89	Sapling	1	5
Red Maple	5	Sapling	1	5
White Pine	3	Pole	8	
Northern Pin Oak	1	Log	14	
Northern Pin Oak	2	Sapling	1	

23	4124 - Red with White Oak	Sawtimber Well	9.3	98	81-110	N/A	Mixed mature oak stand with pole red maple, oak and aspen starting to recruit. There is a lowland pocket of alder in the center of stand that will need buffered during harvest.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Log	12	
Bigtooth Aspen	15	Log/Pole	10	
Red Oak	40	Log	14	98
White Oak	29	Log	16	
Paper Birch	1	Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	>20 feet	Pole
Red Oak	Low	Variable	Pole
Bigtooth Aspen	Low	>20 feet	Pole
White Pine	Low	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
24	4130 - Aspen	Poletimber Well	55.5	25	Immature	N/A	Clearcut 1996. Fully stocked aspen stand. The eastern portion is smaller diameter, at about 4-6 in. DBH. Western portion is about 6-8 in. DBH.																																																															
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25	42110 - Planted Red Pine	Sapling Well	38.1	5	Immature	N/A	Roller chopped 2016, Trenched 2016, Planted to red pine 2017 Released spray 2018. FTP C73-944. 06/2019 Gallagher, treatment update. Replant 05/2019 Seed Lot ONCR601, 1 - 0. 10/18/2019, Year 3 regeneration check by FO recommends no further treatments, stand meets fully stocked red pine criteria. Stand was release sprayed 2018. red pine is currently 2-3' in height. canopy oak and pole white pine are still in stand.																																																															
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26	42290 - Natural Mixed Pine	Sawtimber Well	17.4	65	141-170	N/A	White pine composition ranges from saps to poles to scattered log sized trees. Red pine was interplanted in 1939. Aspen is all but gone. White pine and oak saps from previous inventory have now reached pole size. High density pine stand with oak mixed in both the overstory and understory.																																																															
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27	4139 - Aspen, Mixed Deciduous	Sapling Well	26.9	13	Immature	N/A	land aquired in 2013. The area appears to have been cut after 2006 and before 2009 according to imagery. Sapling cored shows to be around 13 years old. Red maple and aspen logs were left in the canopy, with a few oak as well.																																																															
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28	122 - Road/Parking Lot	Nonstocked	1.0		Unspecified	No																																																																
29	3102 - Grass	Nonstocked	2.2			No	Scattered white pine, oak and red pine. Keep stand delineated for future timber management.																																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
30	4126 - White, Black, N. Pin Oak	Sawtimber Well	11.3	94	81-110	N/A	Oak mortality. Larger older oak are in rough shape. Pole sized maple understory that is younger than the oak overstory. Maple understory has reached merchantability. Oak will need treatment.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		30	Pole/Log	8	40	Red Maple	Medium	>20 feet	Pole
White Oak		20	Log	14	94	Bigtooth Aspen	Low	>20 feet	Sapling
Bigtooth Aspen		10	Pole/Log	9		Northern Pin Oak	Low	5 - 10 feet	Sapling
Northern Pin Oak		40	Log	14	94	Witch Hazel	Low	5 - 10 feet	Tall Shrub
31	6225 - Bog	Nonstocked	10.2			No	Bog with a few pine along the edge, signs of wildlife use going in & out of bog.		
32	4126 - White, Black, N. Pin Oak	Sawtimber Well	40.6	86	81-110	N/A	Thinned in 1994 - all live oak left. Dense understory of red maple aspen and oak. Let understory develop before next treatment. Most regeneration is 3-5" in DBH. Very good mix of white oak in the canopy.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		15	Log/Pole	10		Red Maple	Full	>20 feet	Sapling
White Oak		35	Log	14	86	Bigtooth Aspen	Low	10 - 20 feet	Sapling
Northern Pin Oak		45	Log	14	86	Northern Pin Oak	Low	Variable	Sapling
White Pine		2	Pole	6		White Pine	Low	>20 feet	Sapling
Bigtooth Aspen		3	Pole/Log	9		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
33	42110 - Planted Red Pine	Sawtimber Medium	46.7	82	81-110	N/A	Harvest in 2005 - red pine residual reduced to 75 sq ft. to establish an oak understory. Oak understory is in the process of becoming well established. Oak understory is 18" to 10' tall that is both stump sprouts and seed source. Scattered mature n. pin oak was left. White pine saps and poles are present throughout entire stand		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak		9	Log	14		Northern Pin Oak	Full	5 - 10 feet	Sapling
White Pine		10	Pole/Log	8		White Pine	Low	5 - 10 feet	Sapling
Red Pine		80	Log	14	82				
White Oak		1	Log	14					
34	4310 - Pine, Oak Mix	Poletimber Well	19.9	70	81-110	N/A	Diverse stand. Mixed pine, oak, aspen and maple are all in the stand. Most trees are log sized with a good mix of pole timber.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak		10	Log	14		Northern Pin Oak	Medium	5 - 10 feet	Sapling
Bigtooth Aspen		12	Pole/Log	8		White Pine	High	Variable	Sapling
Northern Pin Oak		20	Log	14		Deciduous Shrubs	Low	Variable	Tall Shrub
White Pine		55	Pole	7	70	Red Maple	Low	>20 feet	Pole
Red Maple		3	Pole/Log	9		Black Cherry	Low	>20 feet	Pole
35	4130 - Aspen	Sapling Well	21.1	27	Immature	N/A	Clearcut 1994. There is a lowland bog filled in with tag alder that splits most of the stand. Southeast corner of stand has more oak and maple, but not enough acres to split. Overall a well stocked aspen stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		15	Sapling	3	27	White Pine	Low	< 5 feet	Sapling
Bigtooth Aspen		60	Sapling	3	27	Red Pine	Trace	< 5 feet	Sapling
Northern Pin Oak		15	Sapling	3	27	Northern Pin Oak	Low	5 - 10 feet	Sapling
White Pine		5	Pole/Log	8					
Northern Pin Oak		3	Log	12					
White Oak		2	Log	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
36	500 - Water	Nonstocked	1.1			No	North end of Rollway Lake																																																						
38	4130 - Aspen	Sapling Well	91.5	7	Immature	N/A	Clear cut 2014. Fully stocked aspen stand. Most the oak is currently shorter than the aspen, but will continue to recruit into the canopy.																																																						
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39	3301 - Low Density Deciduous Trees	Nonstocked	10.2	0	Unspecified	4126 - White, Black, N. Pin Oak	Stand was originally part of planted red pine to the West(stand 3) & the seed tree stands to the NW(stand 148). Not as many canopy oak left, with denser regen of both oak and red maple. Recommending to accept current stand condition. Seed tree harvest spring 2104. Parts of stand trenched and planted to red pine. Trenched 2016 and planted 5/2017. FTP C 73-979.																																																						
40	4199 - Other Mixed Upland Deciduous	Sapling Well	4.9	13	Immature	N/A	Clear cut 2007																																																						
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41	42110 - Planted Red Pine	Sawtimber Medium	19.3	62	51-80	N/A	Cut in 1995 - 40 to 50 sq ft of red and white pine left. Oak regen is present. Areas of stand are semi open. Currently the stand varies from 60-90 BA. Oak, aspen and cherry are all pole sized.																																																						
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42	4199 - Other Mixed Upland Deciduous	Poletimber Well	14.1	50	81-110	N/A	Clearcut 1971. Oak on ridges with the aspen in the lower spots.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
43	4133 - Aspen, Mixed Pine	Poletimber Well	23.3	36	81-110	N/A	Clearcut 1985 - all red and white pine left. More canopy white pine in the south and oak and jack pine in the center of stand. Oak regen is recruiting under the aspen. Good looking aspen stand that will increase in BA as it grows.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		72	Pole	6	36	Northern Pin Oak		
White Pine		15	Log/Pole	12		White Pine		
Red Pine		5	Log	12		White Oak		
Jack Pine		5	Log/Pole	10				
Red Maple		3	Pole	6				
44	4126 - White, Black, N. Pin Oak	Sawtimber Well	15.3	93	81-110	N/A	Mature mixed oak stand showing signs of old age. Heavy deer browse on oak saplings.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Northern Pin Oak		50	Log	16	93	Northern Pin Oak		
White Oak		35	Log	12		Witch Hazel		
Red Maple		10	Log	10		Red Maple		
White Pine		5	Pole/Log	9		White Pine		
45	6225 - Bog	Nonstocked	3.6		Unspecified	No		
46	4199 - Other Mixed Upland Deciduous	Poletimber Well	19.6	36	81-110	N/A	Clearcut 1985. Stand was originally part of aspen stand to the north. This stand came back to more oak & red maple.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		35	Pole	7	36	Red Maple		
Bigtooth Aspen		10	Pole	8	36	Northern Pin Oak		
Northern Pin Oak		45	Log/Pole	10	36	White Oak		
White Oak		5	Pole	6		Witch Hazel		
Black Cherry		5	Pole	6				
47	4131 - Aspen, Oak	Poletimber Well	43.1	35	51-80	N/A	Clearcut 1986. Some areas hold more maple and oak. Basal area will continue to increase as stand ages.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		20	Pole	6	35	Witch Hazel		
Bigtooth Aspen		60	Pole	7	35	Northern Pin Oak		
Northern Pin Oak		15	Pole	6	35			
White Oak		5	Pole	6				
50	4130 - Aspen	Sapling Well	5.7	16	Immature	N/A	Clearcut 2005. Fully stocked aspen stand with an oak component. more oak along the edges.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		80	Sapling	3	16			
Bigtooth Aspen		10	Sapling	3	16			
Northern Pin Oak		10	Sapling	3	16			



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51	4133 - Aspen, Mixed Pine	Poletimber Well	14.5	36	111-140	N/A	Clearcut 1985. Aspen stand with pockets of pine. northern edge contains the red and white pine dominated canopy.																																																		
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52	42110 - Planted Red Pine	Sawtimber Medium	3.1	61	111-140	N/A	Red pine planted in 1960, Thinned 05/2015. Stand is doing well, with minimal deciduous competition. Subcanopy is still under 5'. Oak is being browsed heavily.																																																		
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53	4199 - Other Mixed Upland Deciduous	Poletimber Poor	10.7	33	1-50	N/A	Patchy upland stand at the lower end of 25-50% canopy cover. Low canopy cover has resulted in scrubby growth characteristics in oak and aspen. Continue to hold stand. Potentially harvest in future years and convert to red pine.																																																		
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55	4125 - Black, N. Pin Oak	Sawtimber Medium	21.9	94	51-80	N/A	Selection harvest in 2005 - all aspen, red maple and oak were cut. Stand still ranges in 60-90 basal area of oak. Understory is sparse in most areas. Some denser oak regeneration where the canopy was opened up more & along the stand edges.																																																		
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56	42110 - Planted Red Pine	Poletimber Well	3.1	61	111-140	N/A	Red pine planted in 1960. Narrow stand between private and hardwood stands to the west. Hap hazard rows - many other species mixed in n. pin oak, white pine, jack pine and aspen. Half of actual plantaion is on private. Manage with stand 52.																																																		
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59	4199 - Other Mixed Upland Deciduous	Sapling Well	73.9	16	Immature	N/A	Shelterwood harvest in 2005 - 35 sq ft of oak was left. Possible oak wilt about 1/3 of the trees that were left are standing dead. Majority of overstory oak are now dead. Inclusion of a strip of planted red pine running n/s in center of stand. Very dense oak/aspens understory only a trace of red maple in understory. Lot of white pine left in overstory, stand has regenerated very well. May be able to delineate oak/aspens stands in the future as stand progresses.																																								
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62	6225 - Bog	Nonstocked	31.8			No	Walked through bog while finding corners in the Fall. Hummocky & fairly dry. Highly used by deer. White pine is spread throughout the bog. There are a couple of upland islands that include oak, aspen and mixed pine.																																								
63	4123 - Red Oak	Sawtimber Well	4.5	98	81-110	N/A	Good quality mixed oak with bigtooth and pole red maple. Access is issue with this stand. Only way in is across several private parcels.																																								
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65	500 - Water	Nonstocked	1.2			No	Pocket within bog, surrounded by tamarack and white pine.																																								
66	3301 - Low Density Deciduous Trees	Nonstocked	6.0			No	scrubby regeneration of cherry, aspen and oak. Oak in the overstory is now dead.																																								
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67	4125 - Black, N. Pin Oak	Sawtimber Poor	4.5	97	1-50	N/A	Small stand - between private and larger managed stand to the south. Visual concerns with this stand. Possible to remove all aspen and poor quality oak reducing residual oak BA/AC down to 60 to 70 sq ft. Survey corners are in for blue line work. Shelterwood harvest 5/2015. Majority of oak in the overstory is dead or dying. Regeneration is still recruiting, with oak regen being browsed by deer.																																								
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86	4130 - Aspen	Poletimber Well	31.4	16	Immature	N/A	Clearcut in 2005. Stand is coming back well. Good mix of species.																																																															
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87	4130 - Aspen	Poletimber Well	16.6	36	81-110	N/A	Clearcut in 1985. Stand is coming back well. Does have areas of low pockets																																																															
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88	4110 - Sugar Maple Association	Sawtimber Well	2.5	101	1-50	N/A	Small open stand with scattered big woolly sugar maple. Very few desirable species in subcanopy. Manage with adjacent aspen stand.																																																															
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90	4139 - Aspen, Mixed Deciduous	Poletimber Well	38.4	36	81-110	N/A	Clearcut in 1985. Scattered low areas with cattails and tag alder. Basal area is lower in wetter areas. Manage at the same time as adjacent stand 87 for access.																																																															
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91	4119 - Mixed Northern Hardwoods	Sawtimber Well	21.2	90	81-110	N/A	Selection harvest in 2005. Residual BA/AC was reduced to 95 sq ft. Many pole size trees in stand. Average BA is still sitting around 95 sq ft. Beech is dying out, oak is in good form, sugar maple is ok. Most aspen is located in the north and western portion of stand.																																																															
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92	4130 - Aspen	Sawtimber Well	34.8	46	81-110	N/A	Cut in 1975. 10' to 20' sq ft of scattered mature hardwood left when stand was cut. Well stocked aspen stand with mixed hardwoods. Harvest adjacent small M9 stand to the NW to promote aspen regeneration in that stand. Scattered wet pockets at SE corner of stand.																																													
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93	6220 - Alder/willow	Nonstocked	38.9			No	Popple Creek floodplain stand. Tag alder and willow surround the edges. There are signs of beaver activity in the western portion of stand.																																													
94	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	22.7	45	81-110	N/A	Wet mucky soils. Beaver activity down along Popple Creek. Evidence of patch habitat cuts within stand in the 70's.																																													
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95	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	12.6	61	171-200	N/A	Records indicate red pine planted in 1960. Lots of hardwood mixed in - smaller stand with irregular rows and pockets of hardwood. Very high basal area. Stand needs thinned.																																													
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96	42210 - Natural Red Pine	Poletimber Well	21.4	54	111-140	N/A	Semi open red pine stand. Red pine varies in DBH. Apple trees scattered through-out & are flagged. Good majority of apple trees are dead or dieing. (Old homestead area)																																													
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97	42110 - Planted Red Pine	Sawtimber Well	85.1	52	111-140	N/A	Red pine plantation - very uniform stand - strait rows has good loggability. First time third row thinned in 1995. Scattered mixed hardwood, apple trees and small grassy openings within stand. Scattered areas of red maple in understory. 02/2016 Gallagher, thinned 8/2014 Cornwell Harvest 73-001-13-01. Heavier density understory in the southern portion of stand. Overall the red pine is looking great.																																													
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98	4199 - Other Mixed Upland Deciduous	Poletimber Well	7.0	101	81-110	N/A	Long narrow stand between managed red pine stand and managed aspen stand. 30' to 40' sq ft of very large wolfy beech, red oak and hard maple with understory of beech, hard maple and red oak that is reaching pole size. More aspen is located in the northern half of stand.																																																							
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99	4139 - Aspen, Mixed Deciduous	Poletimber Medium	5.0	46	Unspecified	N/A	Narrow strip of wet ground timber along county road. Manage with adjacent stands 91 or 94.																																																							
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100	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	7.4	114	81-110	N/A	To wet for commercial harvest. Popple Creek bi-sects stand. Heavy wildlife																																																							
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101	4130 - Aspen	Sapling Well	70.8	7	Immature	N/A	Stand had selective clearcut in 1963. Very good growth and quality. Scattered northern hardwood species left when stand was harvested in 1963. Scattered hemlock, hard maple and ash. 02/2016 Gallagher, Clear-cut 06/2014 Cornwell Harvest 73-001-13-01. Stand coming back great to aspen. Mixed maple and beech whips. Canopy beech left from harvest is now dead or dying.																																																							
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102	429 - Mixed Upland Conifers	Sawtimber Poor	5.7	61	111-140	N/A	Labeled as forested stand. Has large bog in center of stand. Diverse stand that holds wildlife habitat value and is heavily used.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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104	4112 - Maple, Beech, Cherry Association	Sawtimber Well	27.8	101	81-110	N/A	Uneven aged beech stand. Selection harvest in 1995. Very dense beech understory with ironwood would make stand very difficult to recruit desirable regen. Scattered hemlock, aspen and ash. Ash is now dead, with beech following. Very few pine in the north. Most of the aspen is located in the south. Stand would be difficult to mark in the summer due to the dense beech understory. Average BA/AC is 95 sq ft
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	XLog/Log	18		Beech	Full	Variable	Sapling
Red Maple	5	Log	14		Ironwood	Medium	Variable	Sapling
Beech	73	Log	14	101	Red Maple	Low	>20 feet	Pole
Red Oak	10	XLog/Log	18					
Bigtooth Aspen	5	Log/Pole	10					

105	3102 - Grass	Nonstocked	3.9		Unspecified	No	Grassy opening with scattered trees. Access road for the majority of the eastern stands is through this opening.
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106	42140 - Planted Mixed Pine	Sawtimber Well	6.7	65	141-170	N/A	All the strips have mixed species. No ryme or reason to the way the trees are planted. Spacing is wide - never been thinned before. More oak and jack pine is mixed in the center of the stand & southern portion. Stand is between old Amble School and the Township Hall and is along county road. Autumn olive planted around edges.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	50	Log/Pole	13	65	Red Maple	Low	Variable	Sapling
Red Pine	32	Log/Pole	13	65	Beech	High	10 - 20 feet	Sapling
Jack Pine	15	Pole	9	65	White Pine	Medium	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	3	Pole	7		Black/Red (Hybrid) Oak	Low	Variable	Sapling
					Red Pine	Low	>20 feet	Sapling
					Balsam Fir	Trace	< 5 feet	Sapling

107	4131 - Aspen, Oak	Poletimber Well	58.1	50	81-110	N/A	Clearcut 1971. Corners are in for blue line work (1/2 mile apart). Severe wind throw in parts of stand. Oak is mostly stump sprout origin & pole sized. Aspen is pole to log size depending on parts of stand. Recommend harvest due to wind throw and aspen age.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	65	Pole/Log	8	50	Bigtooth Aspen	Full	Variable	Sapling
Red Maple	15	Pole	6	50	Red Maple	Medium	Variable	Sapling
Northern Pin Oak	15	Pole/Log	9		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
White Oak	5	Pole	8		Northern Pin Oak	Low	5 - 10 feet	Sapling

108	4125 - Black, N. Pin Oak	Sapling Poor	11.2	14	Immature	N/A	Clear cut 2007. White and red pine left in the overstory. Stand has dense oak regeneration.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	2	13
Quaking Aspen	10	Sapling	2	13
Northern Pin Oak	70	Sapling	2	14
White Pine	3	Pole	6	45
Red Pine	7	Pole	6	45



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
109	4130 - Aspen	Sapling Well	20.4	29	Immature	N/A	Clear cut 1992. Fully stocked aspen stand.																																																						
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110	330 - Low-Density Trees	Nonstocked	17.9	0		414 - Other Upland Deciduous	Final harvest 2013. Stand updated January 2021 during inventory. Stand is fully stocked with aspen, red maple and oak. More oak regen around the SE edge of stand.																																																						
111	4130 - Aspen	Sapling Well	11.1	16	Immature	N/A	Clear cut 2005. Fully stocked aspen stand with oak recruiting.																																																						
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112	42110 - Planted Red Pine	Sawtimber Well	5.0	61	171-200	N/A	Small narrow stand, snowmobile trail bi-sects stand. Stand needs thinned, most red pine is log sized. Some oak is starting to recruit in understory.																																																						
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113	4126 - White, Black, N. Pin Oak	Sawtimber Medium	5.7	104	51-80	N/A	Shelterwood harvest 2005, all aspen, maple and marked oak removed. Long narrow stand between clear cuts, snowmobile trail bi-sects stand. Maple and oak stump sprouts are all over, understory is a result of the harvest. Basal area is still high in parts of stand. Oak is still in good condition.																																																						
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114	310 - Herbaceous Openland	Nonstocked	3.6			No	Scrub oak, cherry and aspen in islands. Mostly trails running through stand. Log sized oak along the perimeter of stand.																																																						
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116	4130 - Aspen	Sapling Well	9.5	29	Immature	N/A	Clear cut 1992.																																													
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Red Pine	5	Pole/Log	9	45																																																
117	3303 - Mixed Low Density Trees	Nonstocked	19.4	0	Unspecified	4319 - Mixed Upland Forest	Variable stand in terms of species composition. Accepting current regeneration. Past treatment: Final harvest 4" spec. Manage for a mix of regeneration of oak, red maple, aspen and white pine. Leave scattered red pine and scattered islands of un-cut timber to meet retention guidelines.																																													
119	4131 - Aspen, Oak	Sapling Well	20.1	16	Immature	N/A	Clear cut 2005. Stand filled in well with aspen, maple and oak. red and white pine have seeded in. White oak poles and a few northern pin oak look like they were left at time of harvest. Overall a well stocked stand.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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121 4191 - Mixed Upland Deciduous with Conifer Sawtimber Medium 5.0 48 51-80 N/A Clear cut 1973. Stand should be managed with surrounding aspen stand. Oak is showing mortality.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	25	Log/Pole	10	47	Witch Hazel	Low	5 - 10 feet	Tall Shrub
Northern Pin Oak	45	Log	14	48	Northern Pin Oak	Medium	5 - 10 feet	Sapling
Red Pine	20	Log	10	47	Bigtooth Aspen	Low	>20 feet	Sapling
White Oak	5	Log	12					
White Pine	5	Log/Pole	10					

122 4131 - Aspen, Oak Poletimber Well 55.9 48 141-170 N/A Clear cut 1973. Some pockets of aspen are ready for harvest. The oak and maple is still pole sized. Overall the stand is healthy with minimal die-off in the aspen.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole	7	47	Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Oak	10	Pole/Log	8	47	White Pine	Low	5 - 10 feet	Sapling
Bigtooth Aspen	55	Pole/Log	8	48	White Oak	Low	5 - 10 feet	Sapling
Northern Pin Oak	10	Pole/Log	8	47				
White Pine	2	Pole/Log	9	47				
Black Cherry	3	Pole	5					

123 4131 - Aspen, Oak Poletimber Well 24.3 37 81-110 N/A Clear cut 1984. There is a 4-5 acre pocket of mixed oak, maple and pine in the center of the stand, all surrounded by aspen. Lowland pocket in SW portion of stand stocked with aspen. Kept as same stand to manage together. BA will increase with stand age.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole	5	36	Witch Hazel	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	40	Pole	6	37				
Northern Pin Oak	15	Pole	6	36				
White Pine	10	Pole	8	36				
White Oak	10	Pole	6					
Red Pine	5	Pole	6					

124 622 - Lowland Shrub Nonstocked 5.3 No Lowland shrub stand. There is a trail running through the western end of stand.

125 4131 - Aspen, Oak Sapling Poor 8.6 16 Immature N/A Clear cut 2005. Pockets of heavier oak regeneration, mainly in the northern end of stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	1	15
White Oak	5	Sapling	2	15
Bigtooth Aspen	65	Sapling	3	16
Northern Pin Oak	25	Sapling	2	15



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
126	4130 - Aspen	Poletimber Well	6.6	37	81-110	N/A	Clear cut 1984. Well stocked aspen stand. Stand is on a ridgetop.																																																	
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127	3301 - Low Density Deciduous Trees	Nonstocked	33.4	0		4211 - Planted Red Pine	Shelterwood harvest 2007, all aspen, maple and marked oak removed. Marked to 50% crown clouser. Decent regeneration as a result of the harvest both stump sprouts and seed source. Regeneration is a mix of oak, maple and aspen. Trenched and planted to red pine. Trenched 2016 and planted 5/2017. FTP C 73-979. Stand needs release spray. Northern portions of stand contain more overstory pine that may limit herbicide spraying.																																																	
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128	4126 - White, Black, N. Pin Oak	Sawtimber Medium	21.8	101	51-80	N/A	Shelterwood harvest 2007, all maple, aspen, jack pine and marked oak removed. Oak was marked to 40% to 50% crown clouser. Basal area ranges from 60-90 in places. Other pockets with lower BA. West end of stand is higher in basal area & contains more aspen.																																																	
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129	6122 - Black Spruce	Poletimber Poor	9.6	60	1-50	N/A	Bog full of tag alder. Most species other than spruce are found along the edges of stand. Spruce is found in center of stand.																																																	
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130	4131 - Aspen, Oak	Poletimber Well	24.4	28	51-80	N/A	Clear cut 1993. Good mix of oak beginning to recruit into the canopy.																																																	
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131	310 - Herbaceous Openland	Nonstocked	1.7			Managed Opening	Wildlife opening																																																	



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132	4131 - Aspen, Oak	Poletimber Well	15.1	38	81-110	N/A	Clear cut 1983. Well stocked aspen stand with a little bit of everything mixed in. Still a small pole stand. Basal area will increase with age																																																
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133	4131 - Aspen, Oak	Poletimber Medium	6.1	38	51-80	N/A	Clear cut 1983. Fully stocked aspen stand. there are some lowland pockets in this stand, bringing the basal area down to 51-80.																																																
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134	310 - Herbaceous Openland	Nonstocked	3.9			Managed Opening	Wildlife opening																																																
135	4130 - Aspen	Poletimber Well	19.4	38	111-140	N/A	Clear cut 1983. Stand came back very well. Fully stocked with a higher percentage of aspen compared to same age stands to North. Pockets of lowland within stand where the paper birch is located. Lowland pockets are operable.																																																
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136	42200 - Natural White Pine	Poletimber Poor	10.5	42	1-50	N/A	Clear cut 2007. All white pine left. Basal area varies through stand. Average was 35-40 BA. Standing pine does not offer much timber value. Regen is filling in pockets.																																																
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137	310 - Herbaceous Openland	Nonstocked	2.6			No	Powerline ROW with DTE gas line																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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138	4126 - White, Black, N. Pin Oak	Sawtimber Well	5.2	97	81-110	N/A	Maintain as visual buffer. Narrow strip of timber between M-18 and powerline. On hill with scattered wet areas. Oak is beginning to show age.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	17	Log	10	60	Red Maple	Medium	Variable	Sapling
White Oak	20	Log	14		Bigtooth Aspen	Low	Variable	Sapling
Bigtooth Aspen	20	Log	12	60	Northern Pin Oak	Low	5 - 10 feet	Sapling
Northern Pin Oak	40	Log	14	97	White Pine	Low	5 - 10 feet	Sapling
White Pine	3	Log	12		Witch Hazel	Low	5 - 10 feet	Tall Shrub

140	6113 - Lowland Maple	Poletimber Poor	4.2	67	1-50	N/A	Lowland stand dominated by red maple with a high density of tag alder. Age is estimated guess on red maple core taken.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	80	Pole	8	67	Tag Alder	High	5 - 10 feet	Tall Shrub
White Pine	5	Pole	6					
Paper Birch	5	Pole	6					
Northern Pin Oak	10	Pole/Log	9					

141	3301 - Low Density Deciduous Trees	Nonstocked	7.4	0	Immature	42111 - Planted Red Pine, Mixed Deciduous	Shelterwood harvest 2002. Seed tree harvest spring 2013. Trenched and planted to red pine. Trenched 2016 and planted 5/2017. Red pine average 2-3' in Feb 2021. Residual oak and a few pine were left in the canopy. Oak is main competition for red pine seedlings. stand is on a ridge between lowlands/bogs.
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Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	Low	>20 feet	Log
White Pine	Low	>20 feet	Log
Red Pine	Trace	>20 feet	Log
Red Pine	Full	< 5 feet	Seeding
Northern Pin Oak	High	< 5 feet	Sapling

142	6225 - Bog	Nonstocked	8.2			No	Bog filled with tag alder. No canopy trees here, and shorter/less dense alder.
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Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High	5 - 10 feet	Tall Shrub

143	4125 - Black, N. Pin Oak	Sapling Medium	4.2	19	Immature	N/A	Clear cut 2002. Stand came back great to oak. Scattered oak and maple logs were left in the canopy, but not a measurable amount.
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Canopy Species	% Cover	Size Class	DBH	Age
White Oak	10	Sapling	2	18
Northern Pin Oak	70	Sapling	2	19
White Pine	10	Sapling	2	18
Jack Pine	3	Sapling	2	18
White Oak	3	Log	10	
Red Maple	2	Log	10	
Northern Pin Oak	2	Log	10	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
144	4130 - Aspen	Sapling Well	11.1	29	Immature	N/A	Clear cut 1992. Fully stocked aspen stand, there are a couple drainages through stand, but will not prohibit any future activities. Main drainage splits the stand.																																																				
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145	3301 - Low Density Deciduous Trees	Nonstocked	10.4	0		42111 - Planted Red Pine, Mixed Deciduous	Aspen and red maple removed in 1997. Mix of aspen, red maple and oak regeneration in understory. Seed tree harvest spring 2103. Trenched and planted to red pine. Trenched 2016 and planted 5/2017. Oak is main competition against red pine seedlings. Some canopy oak were left.																																																				
146	330 - Low-Density Trees	Nonstocked	15.6	0		4139 - Aspen, Mixed Deciduous	Final harvest 2013. Parts of stand trenched and planted to red pine. Trenched 2016 and planted 5/2017. Stand updated January 2021 during inventory. Stand is fully stocked with aspen, red maple and small component of oak.																																																				
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147	4131 - Aspen, Oak	Poletimber Well	19.2	48	111-140	N/A	Clear cut 1973. Stand is very similar to stand 122 (Aspen stand to the west w/snowmobile trail intersecting). There is a little more oak component.																																																				
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148	3301 - Low Density Deciduous Trees	Nonstocked	15.3	0	Unspecified	4126 - White, Black, N. Pin Oak	Seed tree harvest spring 2104. Parts of stand trenched and planted to red pine. Trenched 2016 and planted 5/2017. FTP C 73-979. Stand was once grouped with stand 39 (SE of location). This stand contained more canopy oak. Regen is not as dense, with more red maple stump sprouts.																																																				
149	4310 - Pine, Oak Mix	Poletimber Well	56.7	18	81-110	N/A	Clear cut 1993 - 1996. Planted to red pine in 2002. Herbicide treatment 2008. Planted red pine stand that has resulted in a mixed upland stand. There are some pockets of jack pine, mainly found in the western end.																																																				
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150	4126 - White, Black, N. Pin Oak	Sawtimber Well	12.8	88	81-110	N/A	Mature northern pin oak stand with white oak mixed in. Pin oak is starting to show it's mature age. Aspen is also heavy in some pockets. Stand is at the age where it needs management.																																					
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151	4199 - Other Mixed Upland Deciduous	Poletimber Well	8.5	28	81-110	N/A	Clear cut 1993. Red maple pulp stand currently. Next entry may steer the stand to aspen. Overall stand is well stocked.																																					
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152	4130 - Aspen	Sapling Well	11.6	7	Immature	N/A	FTP C 73-979. Red pine stand to north was originally part of this stand. Fully stocked aspen stand. Pocket of canopy white oak in the SE corner. Good mix of pole oak with the aspen.																																					
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153	4131 - Aspen, Oak	Sapling Well	9.9	7	Immature	N/A	Seed tree harvest spring 2014. Regen in stand is now 15-20' tall, fully stocked with aspen, maple and oak.																																					
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154	4131 - Aspen, Oak	Poletimber Well	29.2	37	81-110	N/A	Clear cut 1984. Good amount of oak mixed in, stand is fully stocked & will continue to increase BA with age.																																					
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155	4126 - White, Black, N. Pin Oak	Sawtimber Poor	15.2	101	1-50	N/A	All dead oak, maple, aspen and oak 10" DBH and less cut on 2001. Extremely dense oak understory throughout most of stand, with red maple filling in any small pockets. Would not recommend chasing canopy oak.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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156 310 - Herbaceous Openland Nonstocked 4.2 Managed Opening Wildlife opening

157 4131 - Aspen, Oak Poletimber Well 60.6 37 81-110 N/A Clear cut 1984. Large aspen stand with multiple wildlife openings in center. Smaller pockets where aspen did not recruit are now dominated by oak.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	7	36	Pin Cherry	Low	10 - 20 feet	Tall Shrub
White Oak	5	Pole	6	36	Witch Hazel	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen	74	Pole	6	37	Northern Pin Oak	Low	5 - 10 feet	Sapling
Northern Pin Oak	15	Pole	7	36				
Red Pine	1	Log	12					

158 4130 - Aspen Sapling Well 11.2 16 Immature N/A Clear cut 2005. Dense aspen stand on a north facing slope.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	1	15
White Oak	5	Sapling	1	15
Quaking Aspen	30	Sapling	2	15
Bigtooth Aspen	50	Sapling	2	16
Northern Pin Oak	10	Sapling	2	15

159 310 - Herbaceous Openland Nonstocked 3.1 Managed Opening Wildlife opening.

160 4131 - Aspen, Oak Poletimber Well 22.4 54 81-110 N/A Clear cut 1967. Excellent aspen growth, rolling hills. Basal area is close to pushing over 110. more oak and red maple stump sprouts in this stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Pole/Log	9	53	Red Maple	Low	>20 feet	Sapling
Bigtooth Aspen	45	Pole	6	54	Bigtooth Aspen	Low	>20 feet	Sapling
Northern Pin Oak	25	Log	12		Northern Pin Oak	Low	5 - 10 feet	Sapling
					Witch Hazel	Medium	5 - 10 feet	Tall Shrub
					Beech	Trace	5 - 10 feet	Sapling

161 4130 - Aspen Sawtimber Well 22.6 54 111-140 N/A Clear cut 1967. Excellent aspen growth, rolling hills.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Log	12	53	Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen	15	Pole/Log	9	53	Red Maple	Medium	>20 feet	Pole
Bigtooth Aspen	60	Log	10	54				
Northern Pin Oak	5	Log	12					

162 330 - Low-Density Trees Nonstocked 9.8 No steep valley splitting stands apart. there are trails running through valley. Scrub oak, aspen and cherry fill the edges.

Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	Low	>20 feet	Pole
Black Cherry	Medium	>20 feet	Pole
Quaking Aspen	Low	>20 feet	Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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163	4199 - Other Mixed Upland Deciduous	Poletimber Well	47.4	54	81-110	N/A	Clear cut 1967. This stand came back to more stump sprout maple and oak, with less of an aspen component. Aspen pocket is located in center of stand. Stand is filling in well.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	45	Pole	8	54	Red Maple	Medium	>20 feet	Sapling
Quaking Aspen	20	Pole	8	53	Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Northern Pin Oak	25	Pole	9		Quaking Aspen	Low	>20 feet	Sapling
White Oak	7	Pole	7		Northern Pin Oak	Medium	5 - 10 feet	Sapling
Black Cherry	3	Pole	6					

164	4130 - Aspen	Poletimber Well	55.4	48	111-140	N/A	Clear cut in 1973. Mature aspen stand ready for harvest, with pole and sapling maple very common throughout stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Log/Pole	10	47	Witch Hazel	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	20	Pole/Log	9	47	Red Maple	Medium	>20 feet	Pole
Bigtooth Aspen	50	Log	12	48	Bigtooth Aspen	Low	>20 feet	Sapling
Northern Pin Oak	10	Pole	7	47				

165	110 - Low Intensity Urban	Nonstocked	0.6				Muskegon Development Company Water Injection Well.
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166	6225 - Bog	Nonstocked	1.4			No	Open bog.
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167	4130 - Aspen	Poletimber Well	15.0	38	111-140	N/A	Clear cut 1983. Dense aspen stand with heavy deer use. Lowland draw separates the stand & could make harvest difficult.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	5	37
Red Oak	10	Pole	6	37
White Oak	5	Pole	5	37
Bigtooth Aspen	50	Pole	8	38
Quaking Aspen	30	Pole	8	

168	4119 - Mixed Northern Hardwoods	Sawtimber Well	10.5	101	81-110	N/A	Stand is adjacent to Middle Branch Cedar River. Stand consists of several ravines leading down to the river. Hard maple is poor quality, as is most the timber. There are pole red oaks that have begun recruiting. Access to stand could be difficult.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Log	14		Sugar Maple	Low	5 - 10 feet	Sapling
Red Maple	30	Log	14	101	Bigtooth Aspen	Low	5 - 10 feet	Sapling
Basswood	10	Log	14		Red Oak	Low	5 - 10 feet	Sapling
Beech	10	Log	15					
Red Oak	30	Log	15	100				
Bigtooth Aspen	10	Log	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
169	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	6.1	119	81-110	N/A	Floodplain and slope above Middle Branch Cedar River. Stand holds wildlife value. Dead ash located in northern end of stand where it splits the upland aspen stand.																																					
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Northern White Cedar	30	Pole	7	119																																								
Hemlock	50	Pole	8	119																																								
Sub-Canopy Species	Density	Avg. Height	Size																																									
Red Maple	Low	5 - 10 feet	Sapling																																									
Balsam Fir	Low	< 5 feet	Sapling																																									
170	622 - Lowland Shrub	Nonstocked	7.7			No	Middle branch Cedar River flood plain. Active beaver activity with multiple dams constructed																																					