



Compartment Review Presentation

Baraga Forest Management Unit

Compartment 11056

Entry Year 2025

Acreage: 1,867

County Houghton

Management Area: Houghton Hardwoods

Stand Examiner: Shaun Sullivan

Legal Description:

Houghton County, Elm River Township.
T52N R36W Sec: 16, 17, 18, 20, 21

Identified Planning Goals:

Central Houghton (4.6)
To maintain a healthy; sustainable forest with special consideration to wildlife habitat, fisheries habitat, and recreational needs while protecting the water resources.

Soil and topography:

The upland sites are on high sloping plateaus, and steep hills with drainage running through deep gullies. Soils are Graveraet-Misery-Ocqueoc Association and Gravereat-Kalkaska Association. Lowlands are Lupton and Cathro mucks.

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

This compartment is adjacent to Twin Lakes State Park property to the east, and is otherwise surrounded by private industrial lands. There is also a private golf course to the south of the compartment.

Unique Natural Features:

None identified.

Archeological, Historical, and Cultural Features:

There are a few abandoned copper mine shafts throughout the compartment.

Special Management Designations or Considerations:

None listed.

Watershed and Fisheries Considerations:

The Misery River, Ahola Creek, Butch Creek and several small tributaries run through this compartment. These are all native brook trout streams.

Wildlife Habitat Considerations:

Compartment 56 is found in the Central Houghton Management Area on Dissected Moraines in Central Houghton County. The major forest cover types include Northern Hardwoods, Aspen, and Mixed Lowland Conifer. Some of the most significant wildlife management issues in the management area are: mesic conifers; mature forest; habitat fragmentation; course woody debris; and retention or development of large living and dead standing trees (for cavities). This management area represents almost 15% of the WUP State Forest hemlock resource and is one of the few MAs where the species reliably regenerates and recruits.

The following have been identified, as featured species for the Central Houghton Management Area:
Blackburnian Warbler, Pileated Woodpecker, and Northern Goshawk.

Mineral Resource and Development Concerns and/or Restrictions

This area had numerous copper workings – test pits, and mine shafts. Surface sediments consist of coarse textured glacial till, lacustrine sand and gravel and an end moraine of fine-textured glacial till. There is insufficient data to determine the Glacial Drift thickness. The Precambrian Jacobsville Sandstone subcrops below the glacial drift. There is not a current economic use for the Jacobsville, but it was used as a building stone in the past. The nearest gravel pit is located two miles to the southeast and potential appears limited. Abandoned copper mines and crushed basalt piles are located five miles to the west. There is no economic oil and gas production in the UP.

Vehicle Access:

Access is from Poyhonen Road at Twin Lakes and there is additional access north of Winona across private property.

Survey Needs:

Survey work will be needed to facilitate timber harvest activities.

Recreational Facilities and Opportunities:

Snowmobile trail number 13 crosses this compartment. Twin Lakes State Park's ski trail also crosses into the compartment.

Fire Protection:

This is not a fire prone area.

Additional Compartment Information:

The following reports from the Inventory are attached:

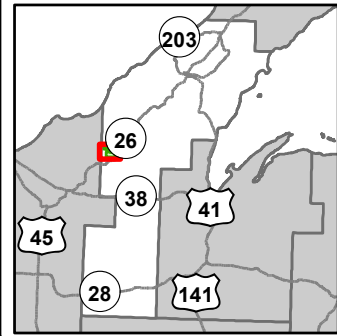
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

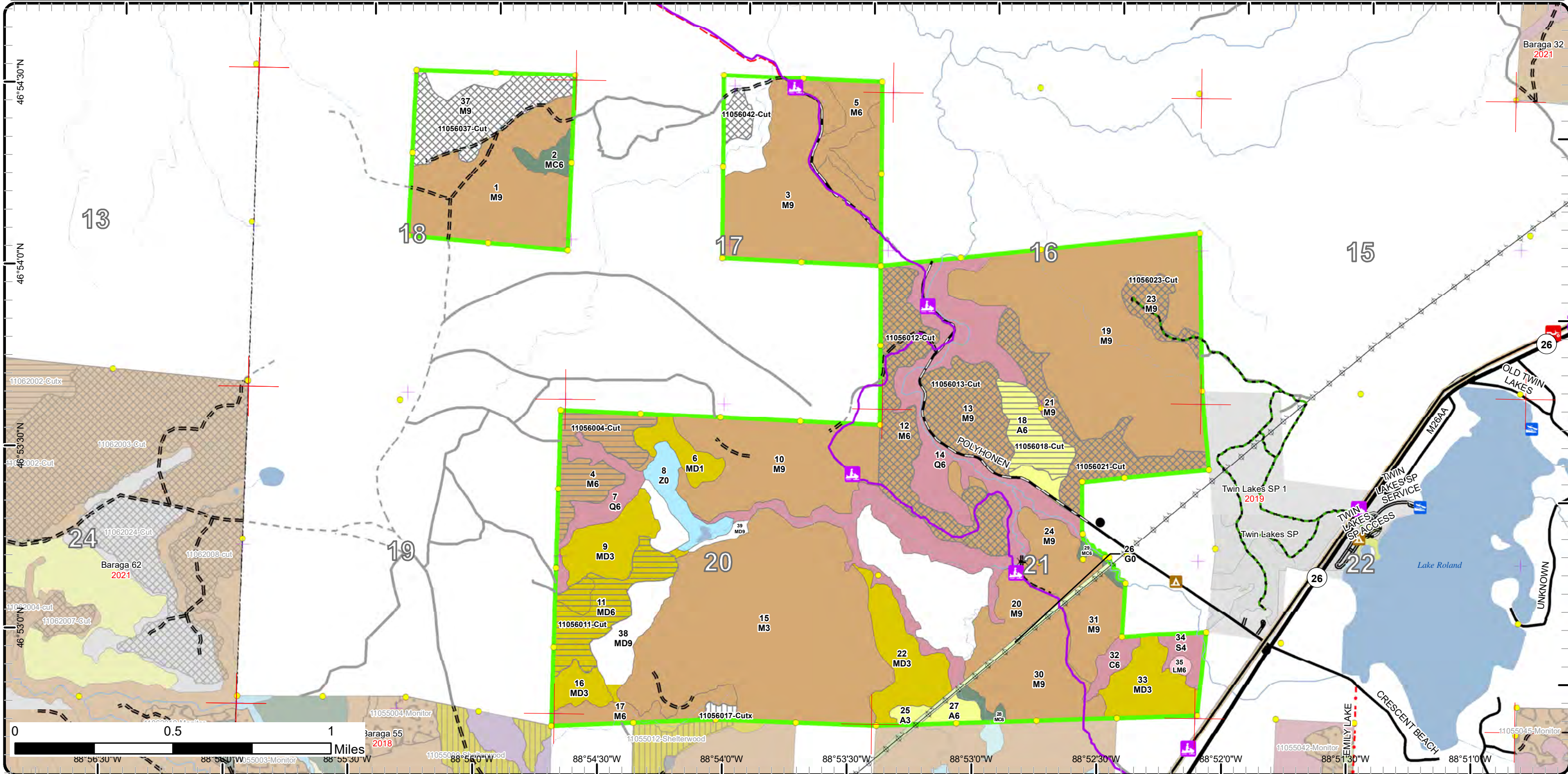
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 56
 T52N, R36W, Sec: 16-18, 20, 21
 County: Houghton
 Unit: Baraga
 Mgmt Area: Houghton Hardwoods
 YOE: 2025
 Acres: 1866.7 GIS Calculated
 Examiner: Shaun Sullivan
 Map Revised: 7/31/2023
 Map Phase: Post-Review

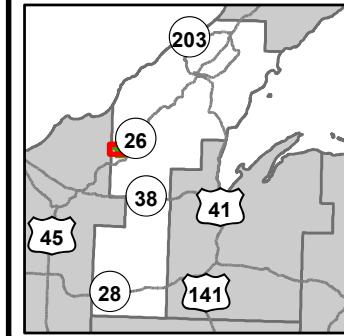


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- Survey Grade Corners
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- Bridges
- ▲ Campground
- City
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 500 - Water

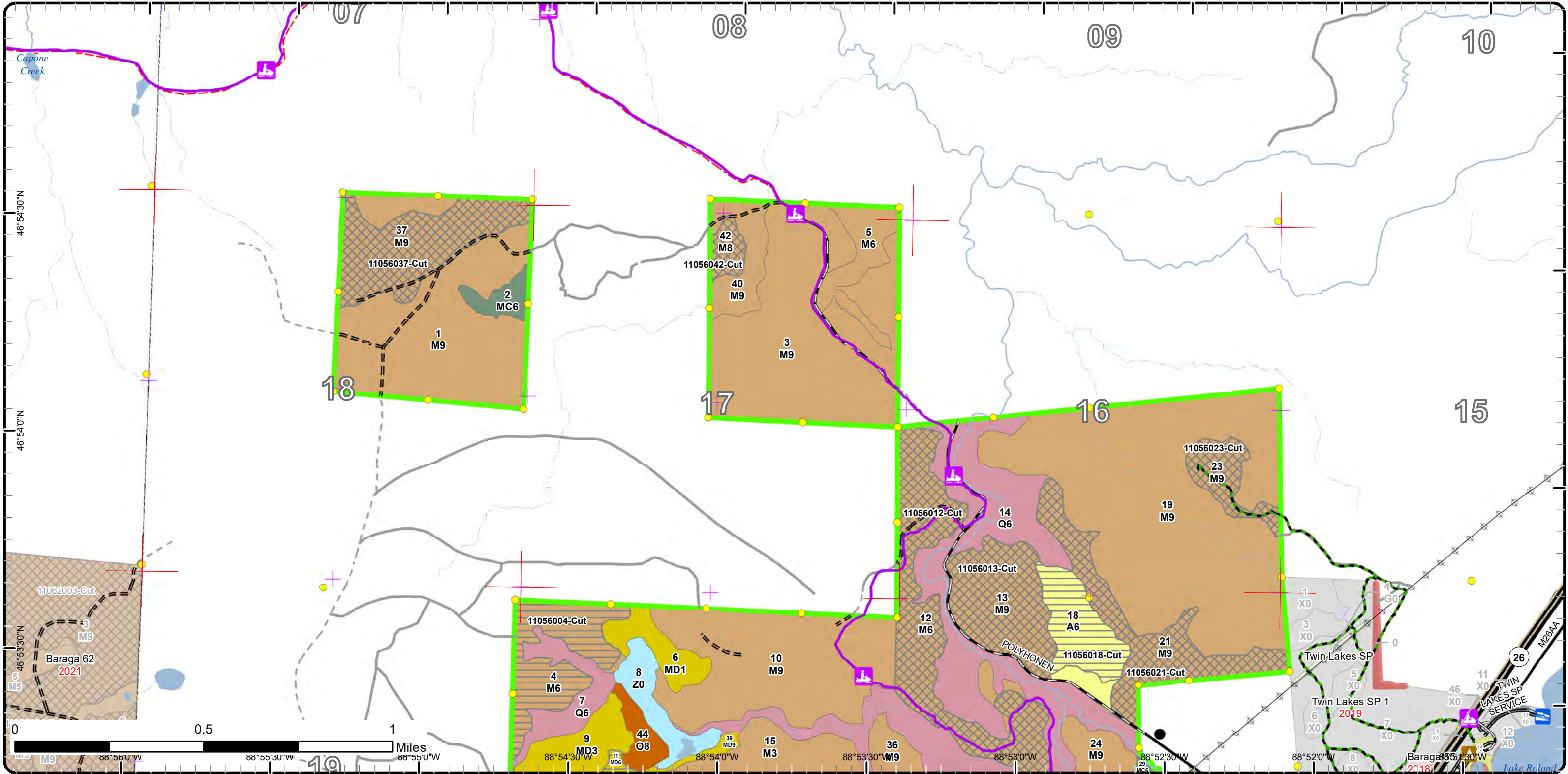


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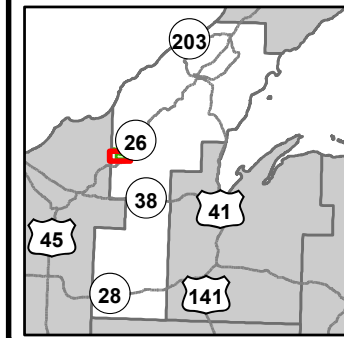


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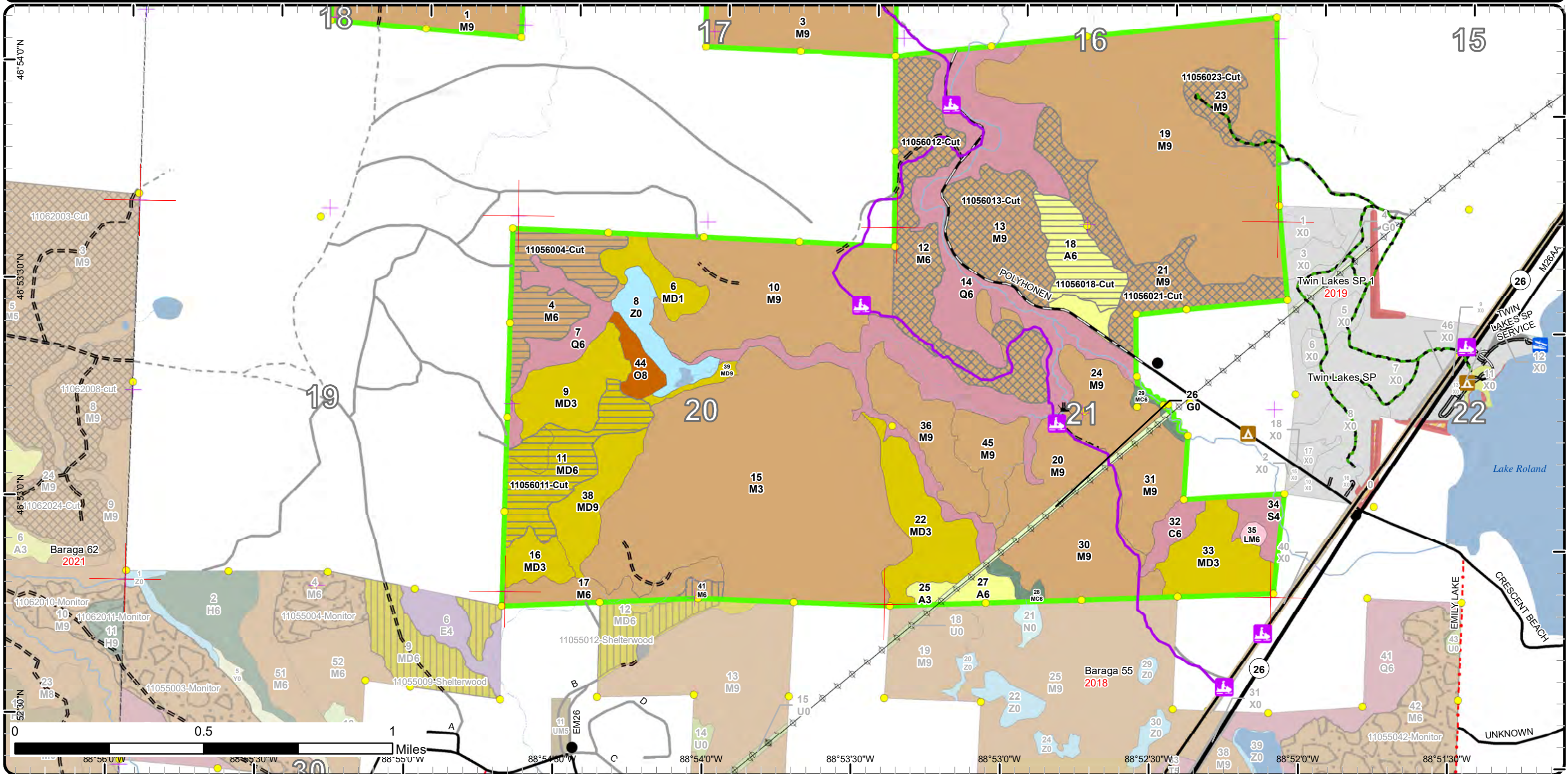


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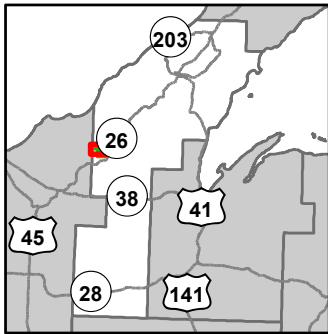


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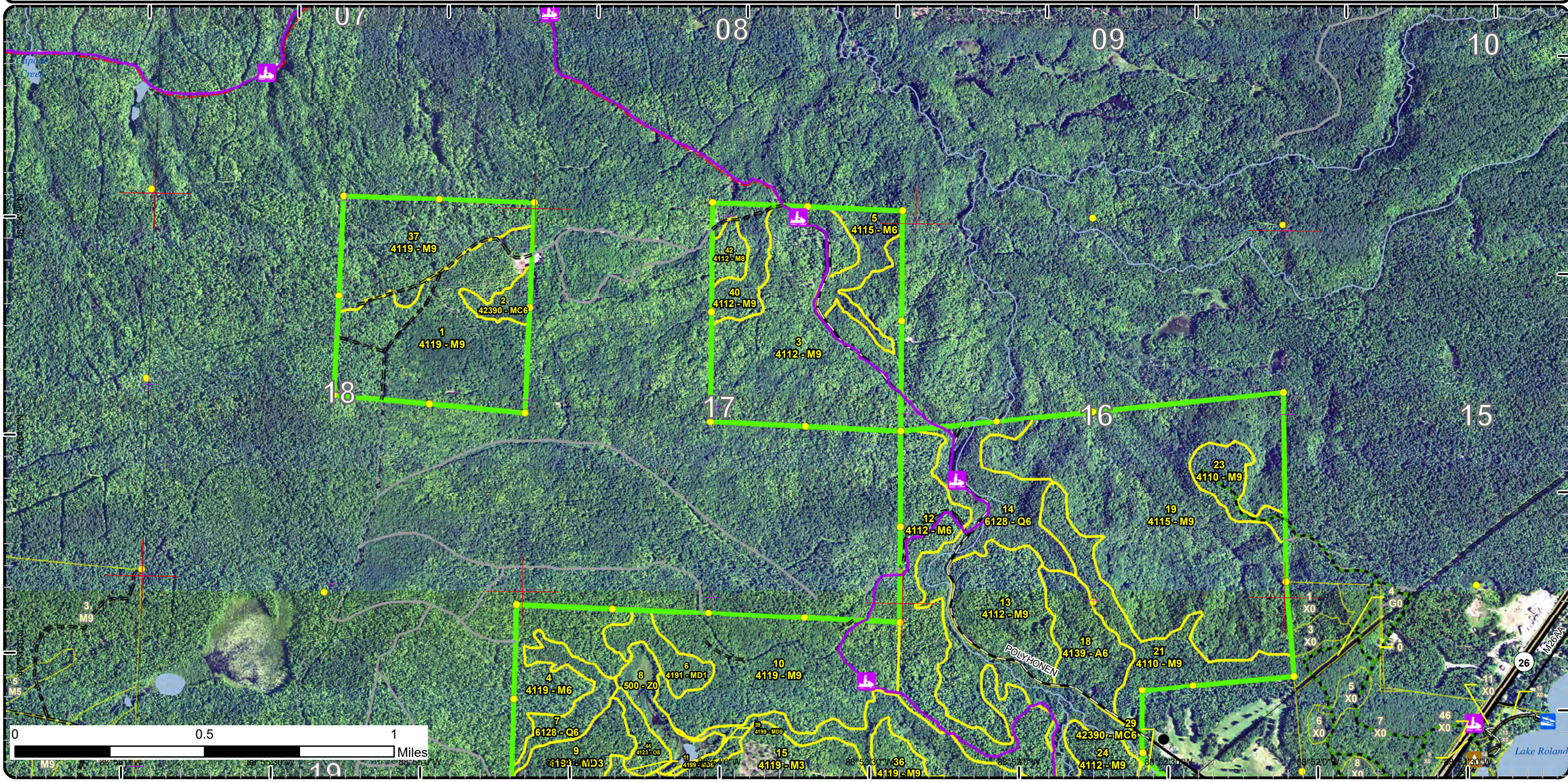


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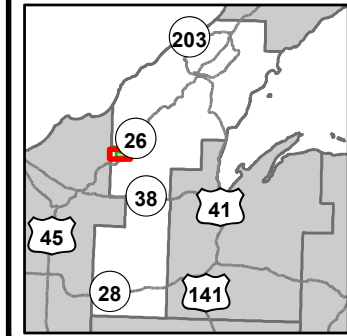
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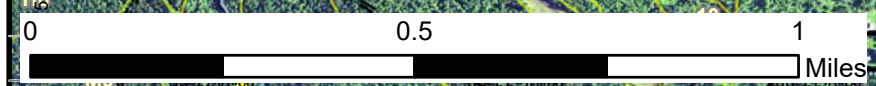
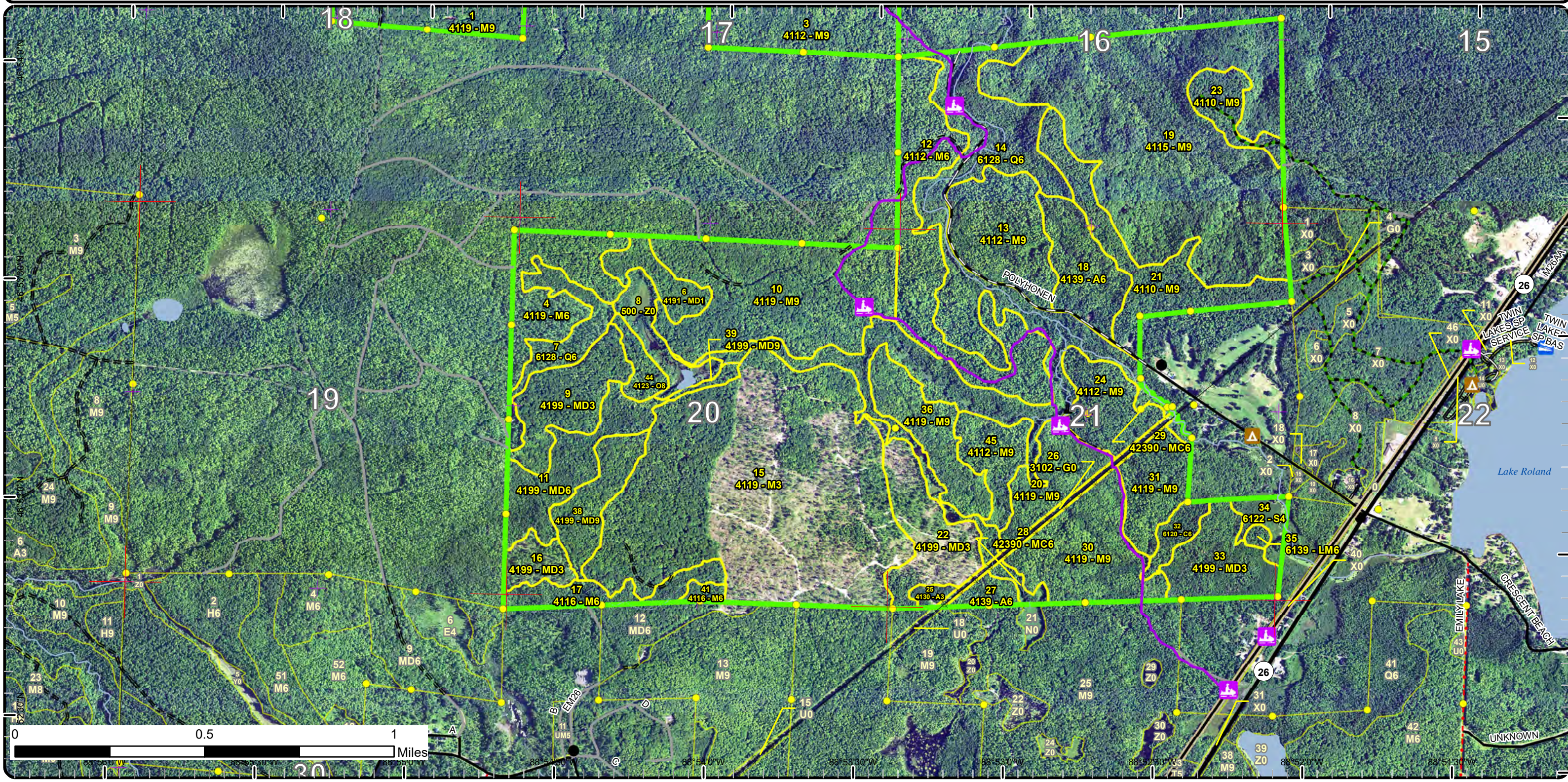
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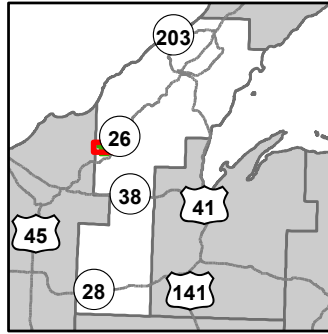
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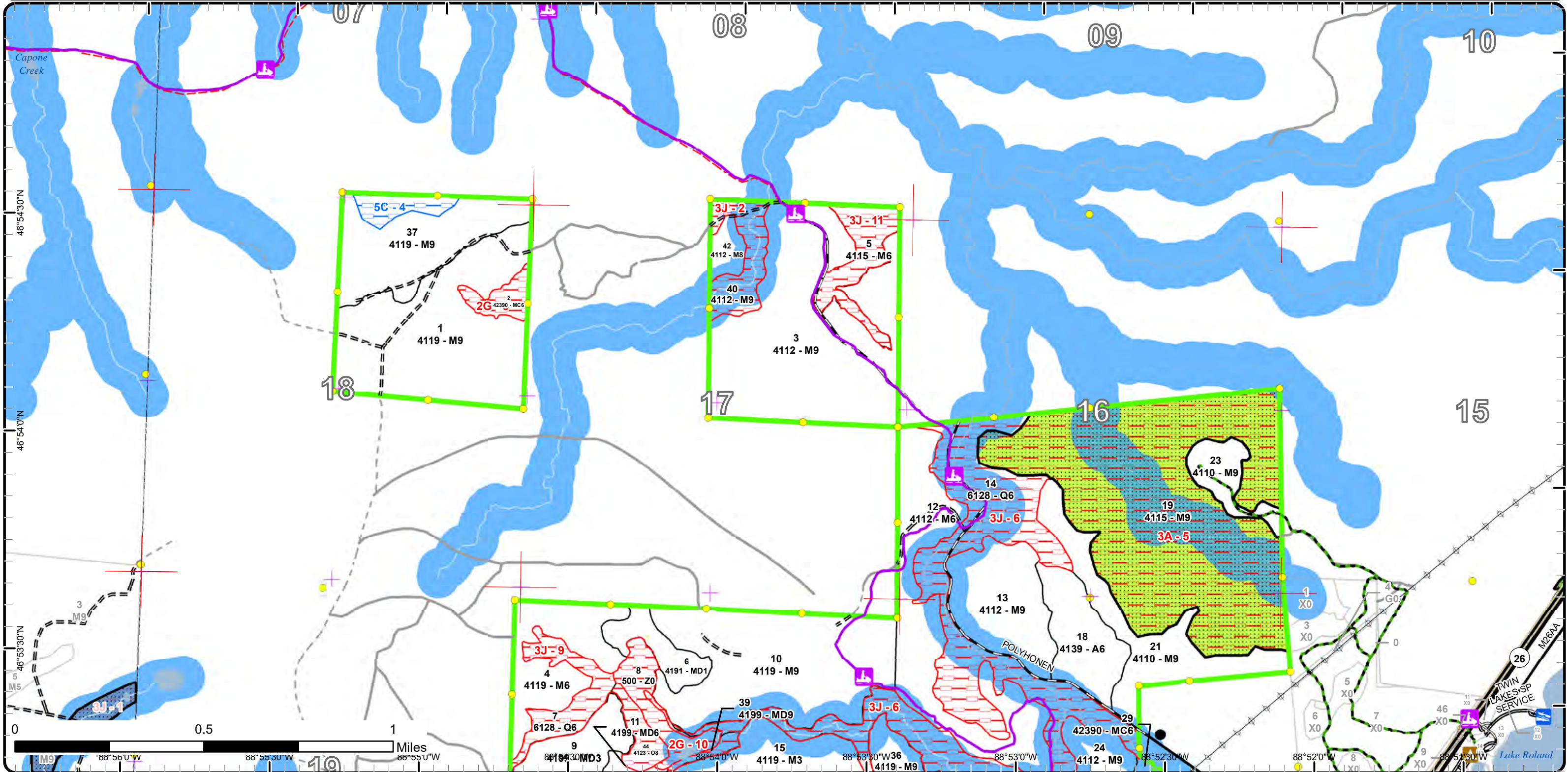
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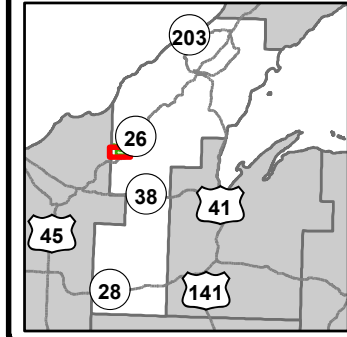


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- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Trail - Trail Corridor
- Other Habitat Area
- Possible Type 2 Old Growth

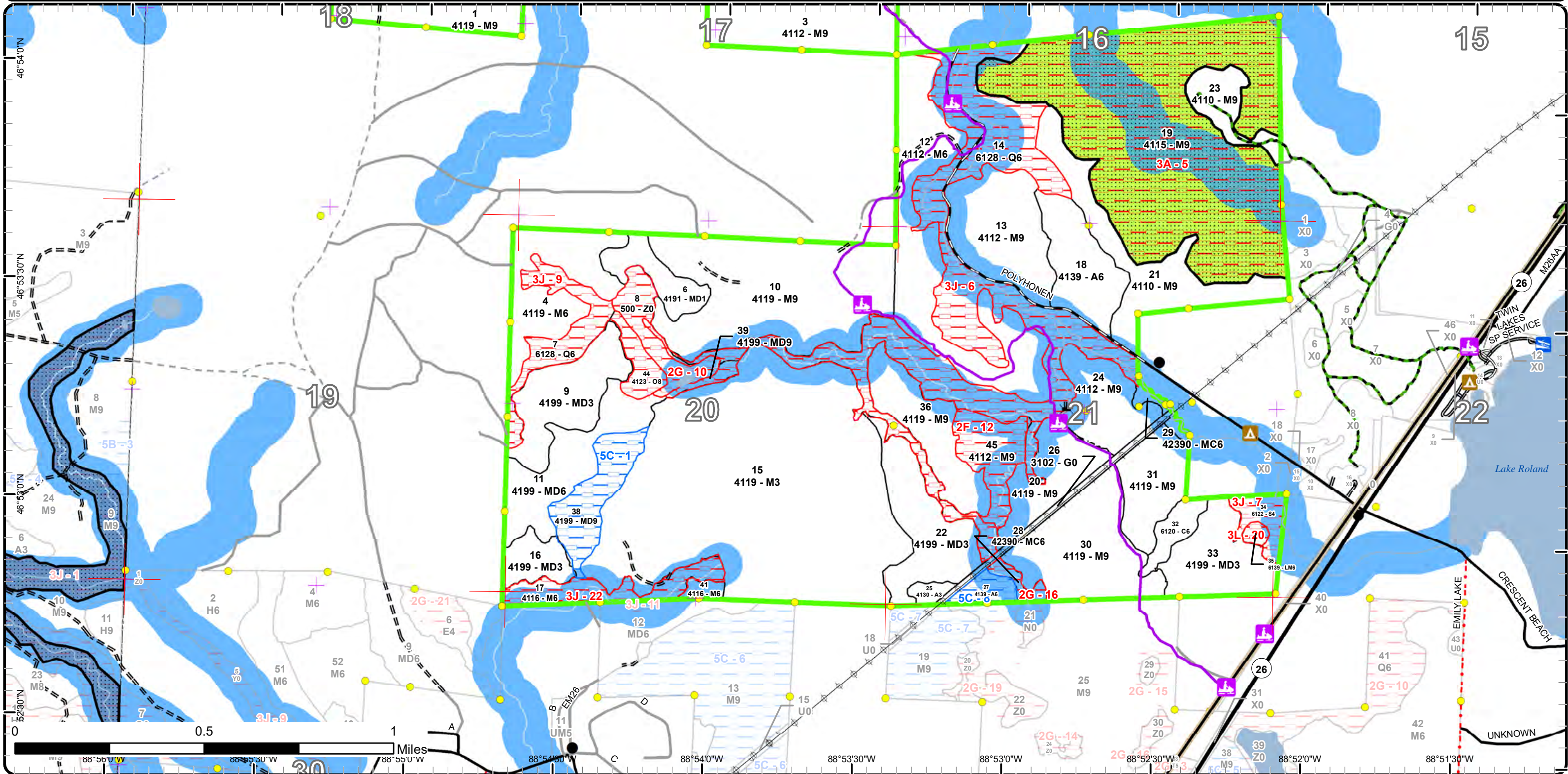


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	3	0	7	0	0	0	0	0	0	0	0	0	0	0	33	42
Cedar	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	9
Herbaceous Openland	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	174	174
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	9
Mixed Upland Deciduous	0	138	0	0	0	38	0	0	0	0	0	0	0	0	0	0	0	28	204
Northern Hardwood	0	256	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1118	1374
Oak	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	8	17
Water	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Total	26	394	0	3	0	45	0	0	0	0	9	9	11	9	0	0	0	1361	1866



Report 2 – Treatment Summary

Baraga Mgt. Unit

Compartment 56

Year of Entry: 2025

Acres of Harvest

Total Compartment Acres: 1,867

Commercial Harvest - 360
 Harvests with Site Condition - 0
 Next Step Harvest - 356
 Habitat Cut - 356

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overshoot Removal	Salvage	Other	Total Acres
Aspen	27	0	0	0	0	0	0	0	0	27
Mixed Upland Deciduous	43	0	0	0	0	0	0	0	0	43
Northern Hardwood	40	247	0	0	3	0	0	0	0	290
Total	109	247	0	0	3	0	0	0	0	360

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	360	0	0	0	0	0	0	0	0	360
Next Step	356	0	0	0	0	0	3	0	0	360
Total	716	0	0	0	0	0	3	0	0	719



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

4	11056004-Cut	39.8	4119 - Mixed Northern Hardwoods	Poletimber Well	98	51-80	Harvest	Clearcut with Retention	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Harvest all species down to 2 inches DBH except hemlock, red Pine, white pine, cedar and oak. If pockets of oak are heavy, thin oak to 1 every 100' to 200'. Exclude paper birch along boundary line for a seed source.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Harvest, Clearcut with Retention</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any tree species that are currently represented in the current over story.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
11	11056011-Cut	42.6	4199 - Other Mixed Upland Deciduous	Poletimber Well	48	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all species down to 4.6 inches DBH except hemlock, red Pine, white pine, cedar and oak. Exclude paper birch along boundary line for a seed source.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Harvest, Clearcut with Retention</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any tree species that are currently represented in the current over story.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
12	11056012-Cut	74.3	4112 - Maple, Beech, Cherry Association	Poletimber Well	109	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selectively thin hardwoods to 70-90 sqft of BA. Favor oak, hemlock, white pine and cedar where present. Oak should be released on 3 sides to an average BA of 60 sqft. Where 30 sqft or more of hemlock occurs thin to no less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker". If areas heavy to oak, aspen, fir/spruce and/or dieback are found, seed tree harvest with a residual 10-30 sq ba of oak, reserving hemlock, cedar and pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Harvest, Single Tree Selection</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any tree species that are currently represented in the current over story.</p> <p><u>Regen:</u></p> <p><u>Other</u> Stand has significant dieback in some areas. May be set on 30 year rotation after harvest.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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13	11056013-Cut	47.0	4112 - Maple, Beech, Cherry Association	Sawtimber Well	109	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Selectively thin hardwoods to 70-90 sqft of BA. Favor oak, hemlock, white pine and cedar where present. Oak should be released on 3 sides to an average BA of 60 sqft. Where 30 sqft or more of hemlock occurs thin to no less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker".

Next Step Harvest, Single Tree Selection
Treatments:

Acceptable Any tree species that are currently represented in the current over story.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

41	11056017-Cutx	3.2	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	98	81-110	Harvest	Shelterwood	4199 - Other Mixed Upland Deciduous	Two-Aged	No
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Prescription Reduce basal area to approx.. 10 ft/ac. Concentrate leave trees on those >20" dbh, which amounts to aprox. 5 tpa or 1 20" tree every 100 ft. If smaller diameter (16-inch) trees are needed, then leave closer to 10 tpa. or 1 tree/chain. This area should be harvested using a non-shortwood operation and be restricted to the fall to maximize scarification.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Any combination of the original stand's over story species prior to harvest.
Regen:

Other Check with HAL. Areas may need to be redlined out.
Comment:

HAL was contacted 4/5/2016 and has asked for gps points. Said red lining out visible areas of concern will be sufficient.

Site Condition

Proposed Start Date: 10/1 /2017

18	11056018-Cut	26.7	4139 - Aspen, Mixed Deciduous	Poletimber Well	57	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Cut all trees greater than 4.6" at DBH that meets product standards. Reserve all white pine, red pine, hemlock, cedar and oak. Retention for this stand will be greater than 3% and will consist of reserve tree species.

Next Step Harvest, Clearcut with Retention
Treatments:

Acceptable Any tree species that are currently represented in the current over story.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
21	11056021-Cut	49.3	4110 - Sugar Maple Association	Sawtimber Well	109	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Selectively thin hardwoods to 70-90 sqft of BA. Favor oak, hemlock, white pine and cedar where present. Oak should be released on 3 sides to an average BA of 60 sqft. Where 30 sqft or more of hemlock occurs thin to no less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Next Step Treatments:</u> Harvest, Single Tree Selection</p> <p><u>Acceptable Regen:</u> Any tree species that are currently represented in the current over story.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
23	11056023-Cut	16.7	4110 - Sugar Maple Association	Sawtimber Well	109	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Selectively thin hardwoods to 70-90 sqft of BA. Favor oak, hemlock, white pine and cedar where present. Oak should be released on 3 sides to an average BA of 60 sqft. Where 30 sqft or more of hemlock occurs thin to no less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Next Step Treatments:</u> Harvest, Single Tree Selection</p> <p><u>Acceptable Regen:</u> Any tree species that are currently represented in the current over story.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
37	11056037-Cut	52.3	4119 - Mixed Northern Hardwoods	Sawtimber Well	98	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Selectively thin hardwoods to 70-90 square feet of basal area. Favor oak, hemlock, white pine and cedar where/if present. Oak should be released on 3 sides to an average BA of 60 sqft. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Next Step Treatments:</u> Harvest, Single Tree Selection</p> <p><u>Acceptable Regen:</u> Any combination of the original stand's over story species prior to harvest.</p> <p><u>Other Comment:</u> Treatment acres will likely change during field prep due to terrain. Add to stand 42 acres for one sale.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
42	11056042-Cut	7.7	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	98	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Selectively thin hardwoods to 70-90 square feet of basal area. Favor oak, hemlock, white pine and cedar where/if present. Oak should be released on 3 sides to an average BA of 60 sqft. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Next Step Treatments:</u> Harvest, Single Tree Selection</p> <p><u>Acceptable Regen:</u> Any combination of the original stand's over story species prior to harvest.</p> <p><u>Other Comment:</u> Marked and went uncut in 2015. Remark in orange.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Total Treatment Acreage Proposed: 359.6

Report 4 – Site Conditions

Baraga Mgt. Unit
Shaun Sullivan : Examiner

Compartment: 56
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		5C	2F	2G	3A	3J	3L	
43	36	7	0	Aspen	7		0				
9	9	0	0	Cedar							
8	8	0	0	Herbaceous Openland			0		0		
174	1	0	173	Lowland Conifers			0		173		
2	0	0	2	Lowland Mixed Forest							2
9	0	0	9	Lowland Spruce/Fir					9	0	
203	175	25	3	Mixed Upland Deciduous	25		0		3	0	
1374	1064	10	300	Northern Hardwood	10	22	0	217	61		
9	0	0	9	Oak			0		9		
16	4	0	13	Upland Conifers			13				
18	0	0	18	Water			17		1		
1,867	1,298	41	528	Total Forested Acres	41	22	30	217	257	2	
	70%	2%	28%	Relative Percent							

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 2/6/23 - Inventoried - Look to hold until 2035 and re-evaluate for age class/structure diversity in the comp.							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	20	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Area harvested in 95. Look at stand during next inventory.							

Report 4 – Site Conditions

Baraga Mgt. Unit
Shaun Sullivan : Examiner

Compartment: 56
Year of Entry: 2025

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: May be inoperable ground. Re-evaluate during sale prep without snow on the ground.							
5	Unavailable	3A: Conservation Values incompatible with harvest at this time	217	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Type 2 Old Growth.							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	156	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Type 2 Old Growth.							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Smaller diameter stems. Hold until 2035. Cut with stands 20 and 30 to the north.							

Report 4 – Site Conditions

Baraga Mgt. Unit
Shaun Sullivan : Examiner

Compartment: 56
Year of Entry: 2025

9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	31	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: water							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	21	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2F: Too steep	22	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	3L: Other wildlife concerns	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: WLD will not permit stand to be harvested.							

Report 4 – Site Conditions

Baraga Mgt. Unit
Shaun Sullivan : Examiner

Compartment: 56
Year of Entry: 2025

22	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	20	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



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Type 1 and Type 2 Old Growth	Old-Growth forest (also termed primary forest, ancient forest, virgin forest, or primeval forest) is an area of forest that has few or no signs of human disturbance and that exhibits unique ecological features related to age, composition and associated structure. Old growth forests are of natural origin. They may be dominated by late successional forest species (i.e. sugar maple and American beech), or may be a very old example of a stand dominated by long-lived early- or mid-seral species (i.e. oak, or red pine).
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																						
1	4119 - Mixed Northern Hardwoods	Sawtimber Well	103.7	98	81-110	N/A	Butch creek, cut completed in 2016 2/2/23 - Inventoried - Removed regen treatment, regen is sufficient.																																																																						
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3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	137.4	98	81-110	N/A	Steep Slopes, Acceler Acer cut in 1995 cut again 2016-2018 2/2/23 - Inventoried - Ash is nearly all dead (EAB). Regen treatment was removed, regen is adequate.																																																																						
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4	4119 - Mixed Northern Hardwoods	Poletimber Well	40.4	98	51-80	N/A	Tick Oak, cut in 2005. 2/2/23 - Inventoried - Ash is mostly dead, lower quality maple with dieback. Decent basswood. Treatment proposed - clearcut with retention - leaving oak. Some areas is heavy oak, scattered to a few an acre in most areas.																																																																						
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5	4115 - Y.Birch, Hemlock NH	Poletimber Well	21.2	98	81-110	N/A	RMZ, very steep and rugged 2/2/23 - Inventoried - Lower quality timber, RMZ area with site condition.																																																								
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6	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	16.0	5	1-50	N/A	High Morels cut 2018 2/2/23 - Inventoried - Regen looks good, removed the regen treatment.																																																								
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7	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	22.1	58		N/A	RMZ 2/2/23 - Inventoried - Ash is dying (EAB). Possible to push the edge of stand 7 during prep to capture some of the better ground of stand 7.																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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9	4199 - Other Mixed Upland Deciduous	Sapling Well	36.6	5	Immature	N/A	Cut in 2018, WWW Dot 11-007-15-01 2/2/23 - Inventoried - Removed regen treatment, regen is adequate.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Sapling	1	
Red Maple	30	Sapling	1	5
Quaking Aspen	20	Sapling	1	
Balsam Fir	5	Sapling	1	
Ironwood	5	Sapling	1	
White Ash	5	Sapling	1	
Red Oak	10	Log	16	98
Red Oak	15	Sapling	1	

10	4119 - Mixed Northern Hardwoods	Sawtimber Well	103.2	109	81-110	N/A	High Morels cut 2017-2018 2/2/23 - Inventoried - Lots of oak stump sprouts, regen is coming in nicely. Regen treatment removed, regen is adequate.
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Canopy Species	% Cover	Size Class	DBH	Age
White Ash	2	Log	16	
Red Oak	15	Log	16	
Sugar Maple	50	Log/Pole	11	109
Red Maple	20	Log	12	
Basswood	8	Log	12	
Yellow Birch	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	Full	Variable	Sapling
White Ash	Low	10 - 20 feet	Sapling
Balsam Fir	Medium	10 - 20 feet	Sapling
Hemlock	Low	10 - 20 feet	Sapling
Red Oak	High	10 - 20 feet	Sapling
Ironwood	Medium	10 - 20 feet	Sapling
Maple (spp.)	Full	Variable	Sapling
Basswood	Low	Variable	Sapling

11	4199 - Other Mixed Upland Deciduous	Poletimber Well	37.7	48	81-110	N/A	2/6/23 - Inventoried - Ready to cut, wetter ground on interior.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	2	Pole/Sapling	5	
Red Oak	18	Log	14	
Quaking Aspen	37	Log	12	48
Northern White Cedar	3	Pole/Log	10	
White Spruce	5	Pole	8	
White Ash	10	Pole	7	
Red Maple	10	Pole	7	
Ironwood	2	Sapling/Pole	6	
Yellow Birch	10	Pole	7	
American Elm	3	Pole	6	

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Ironwood	Medium	10 - 20 feet	Sapling



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12	4112 - Maple, Beech, Cherry Association	Poletimber Well	78.2	109	81-110	N/A	Dieback throughout the stand. Ready to harvest but will be patchy post harvest in areas due to dieback and quality of stems (60-80 residual BA).																																																																					
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14	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	152.3	87	81-110	N/A	Drainage, RMZ 2/6/23 - Looked at while looking at adjacent stands. Need to put site condition on stand - inoperable ground due to terrain.																																																																					
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15	4119 - Mixed Northern Hardwoods	Sapling Well	255.9	5	Immature	N/A	Cut in 2018, WWW Dot 11-007-15-01 for the west half Winona Salvage for the east half 2/6/23 - Inventoried - Need to split stand 15, west 1/4 needs to be its own stand due to regen/oak stems per acre.																																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16	4199 - Other Mixed Upland Deciduous	Sapling Well	12.8	5	1-50	N/A	Tick Oak Cut in 2005, Cut in 2018, WWW Dot 11-007-15-01 2/6/23 - Inventoried - Oak shelterwood cut in 2018. Oak regen is exceptional, possibly remove top in 2035. Residual BA in 40-50 range.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Sapling	2	
Red Maple	15	Sapling	1	
Sugar Maple	10	Sapling	1	
Red Oak	50	Sapling	1	5
Red Oak	20	Log	16	98

17	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	19.9	98	81-110	N/A	m5-cut out aspen and elm in 1978 RMZ 2/6/23 - Inventoried - RMZ - site condition on stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	35	Pole	8	98
Quaking Aspen	20	Pole/Log	8	
Yellow Birch	5	Pole	8	
White Ash	10	Log	12	
Red Oak	20	Log	14	
Sugar Maple	10	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	>20 feet	Sapling
Maple (spp.)	Full	Variable	Sapling
White Ash	Full	>20 feet	Sapling
Red Oak	Low	10 - 20 feet	Sapling

18	4139 - Aspen, Mixed Deciduous	Poletimber Well	32.5	57	81-110	N/A	full of wet drains, M5 2/6/23 - Inventoried - Split some of stand off due to covertype/management direction. Ready to cut. Aspen was aged during inventory.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Pole	6	
American Elm	5	Pole	4	
Red Maple	35	Pole	7	79
Basswood	5	Pole	7	
Quaking Aspen	40	Pole/Log	8	57
White Spruce	3	Pole	8	
Hemlock	2	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	10 - 20 feet	Sapling
Hemlock	Low	>20 feet	Sapling
White Spruce	Medium	10 - 20 feet	Sapling
American Elm	High	>20 feet	Sapling
Maple (spp.)	Full	Variable	Sapling

19	4115 - Y.Birch, Hemlock NH	Sawtimber Well	217.0	109	141-170	N/A	Recommend for sca. Type II old Growth. RMZ. 2/6/23 - Inventoried - Inoperable due to terrain, along with drains in basins.
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Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	5	Pole/Log	10	
Quaking Aspen	3	Log	14	
White Pine	2	XLog	20	
Hemlock	25	Log	14	
Northern White Cedar	5	Pole	8	
Red Maple	20	Log/Pole/XLog	12	
Basswood	5	Pole/Log	10	
Sugar Maple	35	Log	12	109

Sub-Canopy Species	Density	Avg. Height	Size
Basswood	Medium	Variable	Sapling
Balsam Fir	Full	>20 feet	Sapling
Hemlock	Full	Variable	Pole
Yellow Birch	High	Variable	Sapling
Maple (spp.)	Full	Variable	Sapling



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20	4119 - Mixed Northern Hardwoods	Sawtimber Well	26.8	98	81-110	N/A	East and west portin of the stand were cut as "Mike's Last Stand" 11-023-15. by JM Longyear.2/6/23 - Inventoried - Nicely stocked stand - will be ready to cut in 2035. BA is on the high-end of 81-110.																																																											
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21	4110 - Sugar Maple Association	Sawtimber Well	49.3	109	111-140	N/A	Iso Guuru, cut in 2005. 2/6/23 - Inventoried - Ready to harvest, add to stand 23 for one sale.																																																											
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22	4199 - Other Mixed Upland Deciduous	Sapling Well	39.3	6	Immature	N/A	Cut 2017 as Winona Salvage 2/6/23 - Inventoried - Nice mixed regen coming in.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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24 4112 - Maple, Beech, Cherry Association Sawtimber Well 28.5 109 81-110 N/A Auditor Hdwd, cut in 2004

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	5	Log	14		Maple (spp.)	Full	Variable	Sapling
Yellow Birch	5	Pole/Log	12		Quaking Aspen	Low	>20 feet	Sapling
Red Maple	30	Log	14		Balsam Fir	Low	10 - 20 feet	Sapling
Red Oak	5	Log	16		Red Oak	Medium	Variable	Sapling
Sugar Maple	55	Log	14	109	Ironwood	Medium	>20 feet	Sapling
					Black Cherry	Low	Variable	Sapling

25 4130 - Aspen Sapling Well 3.4 23 Unspecified N/A 2/6/23 - Inventoried - Aspen regen

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Log	16	
Red Maple	10	Sapling	2	23
Quaking Aspen	75	Sapling	3	23
Paper Birch	5	Sapling	1	23
Red Oak	5	Log	12	

26 3102 - Grass Nonstocked 8.4 Unspecified No power line

27 4139 - Aspen, Mixed Deciduous Poletimber Well 7.0 48 81-110 N/A 2/6/23 - Inventoried - Ready to cut in 10 years.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Ash	5	Pole	6		Yellow Birch	Full	Variable	Sapling
Red Oak	2	Log	14		White Spruce	Medium	>20 feet	Sapling
Quaking Aspen	45	Pole	8	48	Hemlock	Medium	>20 feet	Pole
Sugar Maple	15	Pole	7		Balsam Fir	Medium	Variable	Sapling
Red Maple	20	Pole	7		White Ash	Full	Variable	Sapling
White Spruce	3	Pole	10		Maple (spp.)	Full	Variable	Sapling
Basswood	5	Log	12					
Yellow Birch	5	Pole/Log	10					

28 42390 - Mixed Non-Pine Upland Conifers Poletimber Well 4.0 91 81-110 N/A Drainage, RMZ.
2/6/23 - Inventoried - Look at adding site condition due to inoperable ground.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	5	Pole	6		Balsam Fir	Full	Variable	Sapling
Balsam Fir	5	Pole	5		White Spruce	Full	Variable	Sapling
White Spruce	20	Log	12		Tag Alder	High	10 - 20 feet	Tall Shrub
Northern White Cedar	15	Pole	5		Maple (spp.)	Full	Variable	Sapling
White Pine	5	Log	16		Yellow Birch	Full	Variable	Sapling
Sugar Maple	10	Pole	7		Hemlock	Full	Variable	Sapling
Hemlock	30	Log	14	91				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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29 42390 - Mixed Non-Pine Upland Conifers Poletimber Well 3.5 102 81-110 N/A Trib. to Misery River. RMZ.
2/6/23 - Inventoried

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	15	Pole	5		Balsam Fir	Full	Variable	Sapling
Hemlock	30	Log	14	102	White Spruce	Full	Variable	Sapling
White Pine	5	Log	16		Maple (spp.)	Full	Variable	Sapling
Red Maple	10	Pole	7		Hemlock	Full	Variable	Sapling
Balsam Fir	5	Pole	5		Yellow Birch	Full	Variable	Sapling
White Spruce	20	Log	12		Tag Alder	Full	10 - 20 feet	Tall Shrub
Sugar Maple	10	Pole	7					
Yellow Birch	5	Pole	6					

30 4119 - Mixed Northern Hardwoods Sawtimber Well 53.2 98 81-110 N/A "Mike's Last Stand" 11-023-15. by JM Longyear.
2/6/23 - Inventoried - nicely stocked stand, will be ready in 2035, BA is on high end of 81-110.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	52	Log/Pole	12	98	Balsam Fir	Medium	10 - 20 feet	Sapling
Red Maple	20	Log	12		White Spruce	Medium	10 - 20 feet	Sapling
Yellow Birch	5	Log	12		Ironwood	Medium	10 - 20 feet	Tall Shrub
White Pine	2	XLog	20		Maple (spp.)	Full	Variable	Sapling
Quaking Aspen	3	Pole/Log	10		Hemlock	Medium	Variable	Sapling
Red Oak	8	Log	16		Yellow Birch	Low	Variable	Sapling
Basswood	10	Log	12					

31 4119 - Mixed Northern Hardwoods Sawtimber Well 26.9 102 81-110 N/A Auditor Hdwd. cut in 2004

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	2	Pole	8		Aspen (spp.)	Low	10 - 20 feet	Sapling
Red Maple	35	Log/Pole	10	102	Maple (spp.)	Full	Variable	Sapling
Yellow Birch	5	Pole/Log	10		Black Cherry	Low	Variable	Sapling
Red Oak	20	Log	16		Ironwood	Full	10 - 20 feet	Sapling
Sugar Maple	35	Pole/Log	10		Red Oak	High	10 - 20 feet	Pole
White Spruce	3	Log	12					

32 6120 - Lowland Cedar Poletimber Well 9.1 101 1-50 N/A Check regeneration during next inventory cycle (7/19/22)

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	25	Pole	8		Quaking Aspen	Medium	< 5 feet	Sapling
Northern White Cedar	50	Pole	5	101				
White Pine	10	XLog/Log	18					
Black Cherry	15	Pole	8					

Yotey Pulp Harvested Winters 2020-2022. 11-024-15-01
2/6/23 - Inventoried - Looked at from adjacent stand - wetter ground.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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33 4199 - Other Mixed Upland Deciduous Sapling Well 32.8 2 1-50 N/A Check regeneration during next inventory cycle (7/19/22)

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	3	Sapling	2	
Black Cherry	5	Sapling/Pole	7	
Black Ash	1	Sapling	2	2
Yellow Birch	3	Pole	6	
Paper Birch	1	Sapling	1	
Northern White Cedar	10	Sapling/Pole	10	100
Hemlock	2	Log/Pole	12	
White Pine	1	Log	14	
Quaking Aspen	36	Sapling	1	2
White Spruce	1	Sapling	1	
Red Maple	37	Sapling	1	2

Yotey Pulp Harvested Winters 2020-2022. 11-024-15-01
2/6/23 - Inventoried - regen is coming in nicely.

34 6122 - Black Spruce Poletimber Poor 9.4 116 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	50	Pole	7	116
Black Ash	10	Pole	6	
Tamarack	40	Pole	8	116

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Full	10 - 20 feet	Tall Shrub

wet
2/6/23 - Inventoried - looked at edge of stand from adjacent stands.

35 6139 - Mixed Lowland Forest Poletimber Well 2.2 116 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	5	Pole	8	
White Spruce	30	Log	12	
Quaking Aspen	5	Log	12	
Red Maple	35	Pole	8	116
Northern White Cedar	5	Pole	5	
Black Ash	5	Pole	5	
Balsam Fir	15	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Full	Variable	Sapling
White Spruce	Full	Variable	Sapling
Red Maple	Full	Variable	Sapling
Black Ash	High	Variable	Sapling
Northern White Cedar	Low	>20 feet	Pole

2/6/23 - Inventoried - Looked at from edge of adjacent stands - wet.

36 4119 - Mixed Northern Hardwoods Sawtimber Well 33.4 98 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	68	Log/Pole	12	98
Red Maple	10	Log	12	
Yellow Birch	5	Log	12	
Basswood	10	Log	12	
White Pine	2	XLog	20	
Red Oak	5	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	10 - 20 feet	Sapling
Balsam Fir	Medium	10 - 20 feet	Sapling
Ironwood	Full	10 - 20 feet	Sapling
Hemlock	Medium	Variable	Sapling
Maple (spp.)	Full	Variable	Sapling
Yellow Birch	Low	Variable	Sapling

East and west portin of the stand were cut as "Mike's Last Stand" 11-023-15. by JM Longyear.
2/6/23 - Inventoried - Nicely stocked stand - will be ready to cut in 2035.
BA is on the high-end of 81-110.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																									
37	4119 - Mixed Northern Hardwoods	Sawtimber Well	62.2	98	111-140	N/A	Butch creek, cut completed in 2000 2/2/23 - Inventoried - Treatment in 2025 - may need to trim more off treatment acreage during prep due to terrain. (add stand for one sale).																																																																									
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38	4199 - Other Mixed Upland Deciduous	Sawtimber Well	24.7	102	111-140	N/A	2/6/23 - Inventoried - Ready to cut but re-evaluate in 10 years (2035) to stagger out structure and age classes in compartment. Oak shelterwood harvest as stand 16 was.																																																																									
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40	4112 - Maple, Beech, Cherry Association	Sawtimber Well	20.0	98	111-140	N/A	Steep Slopes Acceler Acer cut in 1995 2/2/23 - Inventoried - Steep slopes - lower quality timber.																																																																									
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41	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	3.3	98	81-110	N/A	m5-cut out aspen and elm in 1978 RMZ 2/6/23 - Inventoried - Under contract, currently being harvested.																																																												
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42	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	7.7	98	111-140	N/A	Steep Slopes, Acceler Acer cut in 1995 cut again 2016-2018 2/2/23 - Inventoried - Was uncut in 2018.																																																												
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44	4123 - Red Oak	Sawtimber Medium	9.4	98	1-50	N/A	Cut in 2018, WWW Dot 11-007-15-012/2/23 - Inventoried - Removed regen treatment, regen is adequate.																																																												
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45	4112 - Maple, Beech, Cherry Association	Sawtimber Well	21.8	98	111-140	N/A	East and west portin of the stand were cut as "Mike's Last Stand" 11-023-15. by JM Longyear. 2/6/23 - Inventoried - Nicely stocked stand - will be ready to cut in 2035. BA is on the high-end of 81-110. 2/6/23 - Inventoried - Split stand out from adjacent hardwood and put site condition on it for terrain/bmp.																																																												
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