



Compartment Review Presentation

Baraga Forest Management Unit

Compartment 11014

Entry Year 2019

Acreage: 2,094

County Baraga

Management Area: Peshekee Highlands

Revision Date: 2017-05-17

Stand Examiner: Ryan Mattila

Legal Description:

L'Anse Township T49N, R32W, Sections 19, 20, 30, 31 and 32
L'Anse Township T49N, R33W, Section 24, 36

Identified Planning Goals:

To maintain a healthy sustainable forest with special consideration to wildlife and fisheries habitat.

Soil and topography:

This is a very rugged, hilly, rocky area. Soils: Upland soils are Champion cobbly silt loams, Michigamme cobbly silt loams, Net silt loam, and rock. Lowland soils are Carbondale Witbeck and Tacoosh mucks, Dawson and Greenwood peats.

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

The state land is fragmented. It is surrounded by a mix of industry land, small private landowners and some private clubs.

Unique Natural Features:

The Sturgeon River is on the south side of the compartment. The stands adjoining this river are being considered for SCA management. MNFI indicates a potential for osprey, eagle, great blue heron rookery, red-shouldered hawk, goshawk, moose, gray wolf and potential for wood turtle along drainage, for frigga fritillary and freija fritillary in open wetlands and bogs.

Archeological, Historical, and Cultural Features:

None.

Special Management Designations or Considerations:

BMP guidelines should be followed around the intermittent streams.

Watershed and Fisheries Considerations:

The Sturgeon River is on the south side of the compartment. There are some tributaries to the Sturgeon in the compartment. Summit Lake, Little Summit Lake and several small pothole lakes are also within the compartment

Wildlife Habitat Considerations:

American marten are found in compartment; maintaining a conifer component and travels corridors are important.

Mineral Resource and Development Concerns and/or Restrictions

No sand/gravel pits are located within the compartment. Bedrock is at or near the surface within the compartment and sand & gravel potential is considered low. There has been no significant metallic mineral production within three miles of the compartment. There has been no leasing activity in the area since 2009. Based on very limited data, metallic mineral potential appears to be low. There is no known potential for economic oil and gas production in the UP.

Vehicle Access:

Access to state owned land though private ownership may be a problem. Access to the lands in section 20 is a major problem.

Survey Needs:

Some survey work will need to be done for harvest activities.

Recreational Facilities and Opportunities:

The area gets some small game and deer hunting use.

Fire Protection:

This area is subject to infrequent isolated lightning strike fires that are difficult to suppress due to difficult terrain.

Additional Compartment Information:

The following reports from the Inventory are attached:

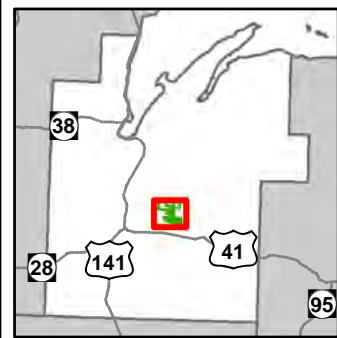
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

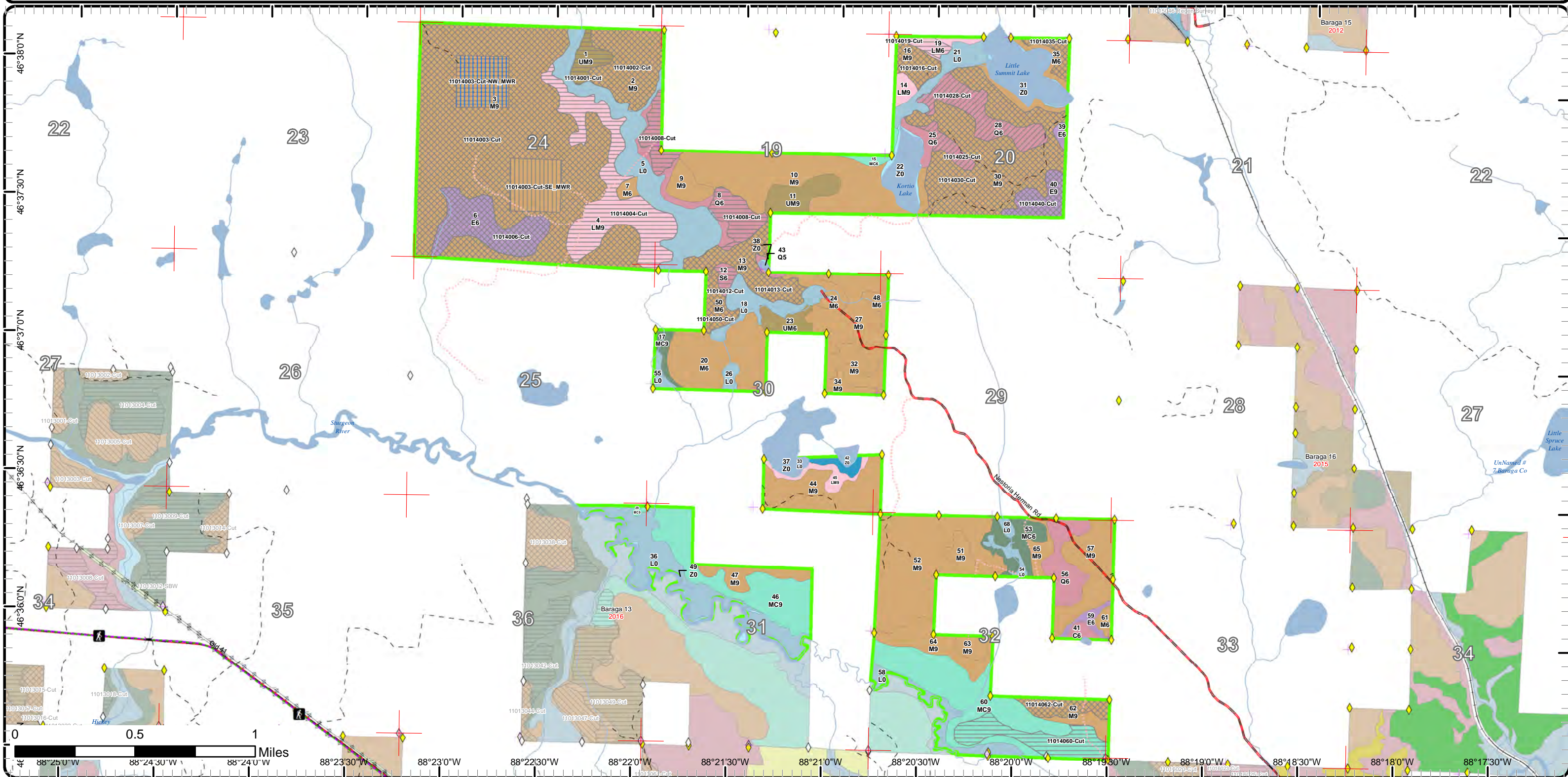
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 14
 T49N, R32W, Sec: 19, 20, 30-32
 T49N, R33W, Sec: 24, 36
 County: Baraga
 Unit: Baraga
 Mgmt Area: Peshekee Highlands
 YOE: 2019
 Acres: 2090 GIS Calculated
 Examiner: Ryan Mattila
 Map Revised: 9/12/2017
 Map Phase: Post Review

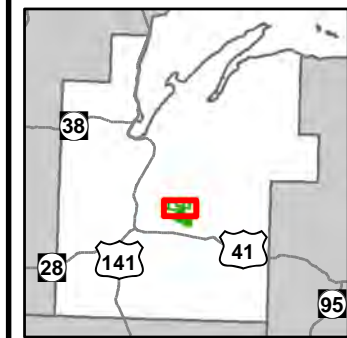


- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- Counties
- Hiking Trails
- Snowmobile Trails
- - - Designated Hiking Trails
- - - Designated Snowmobile Trails
- Paved Roads
- County Gravel Roads
- - - Poor Dirt Roads
- - - Closed
- Active Railroads
- Streams
- Lakes and Rivers All
- Powerline
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed non-forested wetland
- Lakes

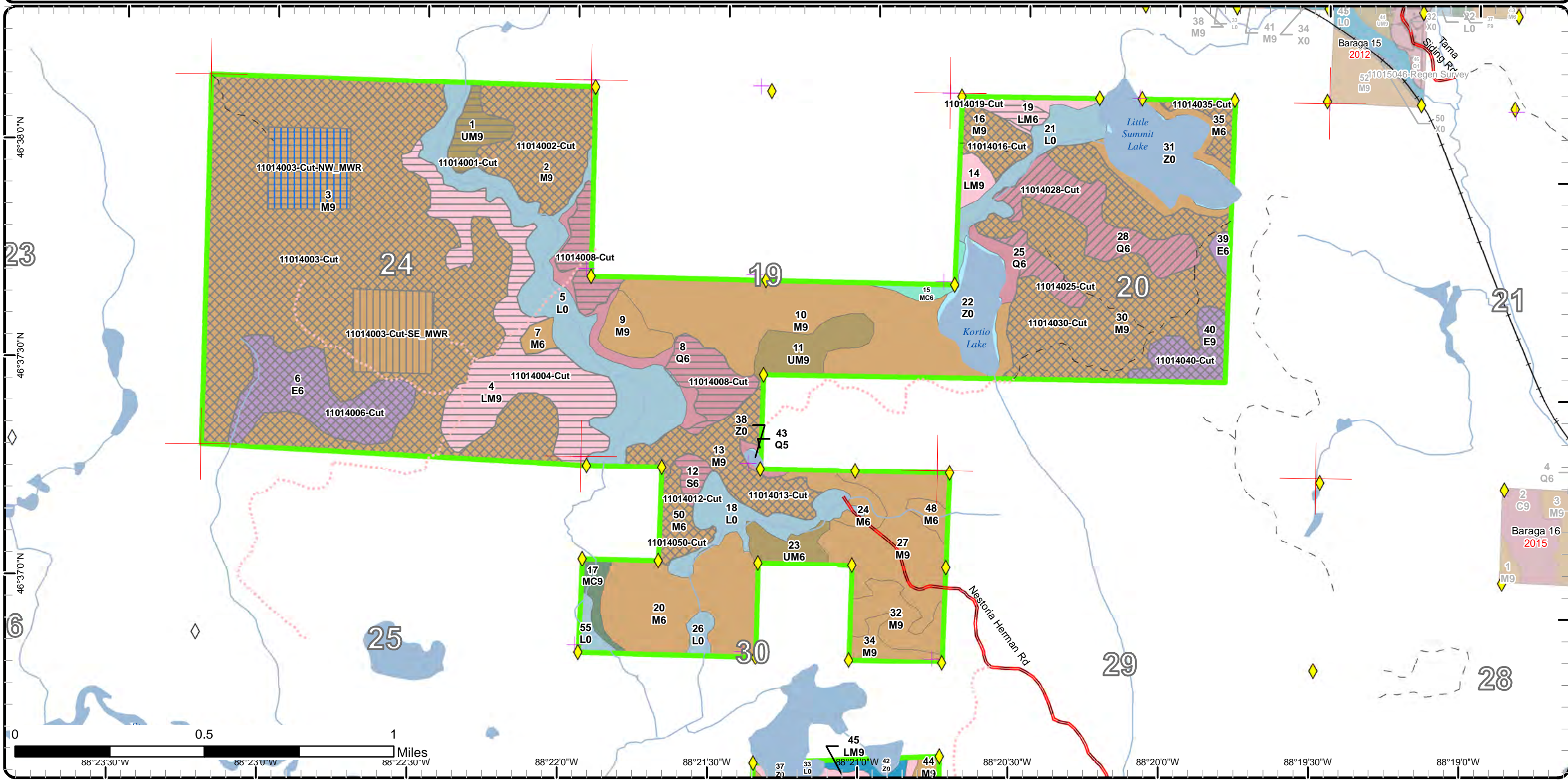


Cover Type & Treatments Map

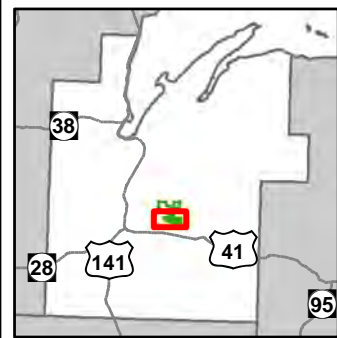
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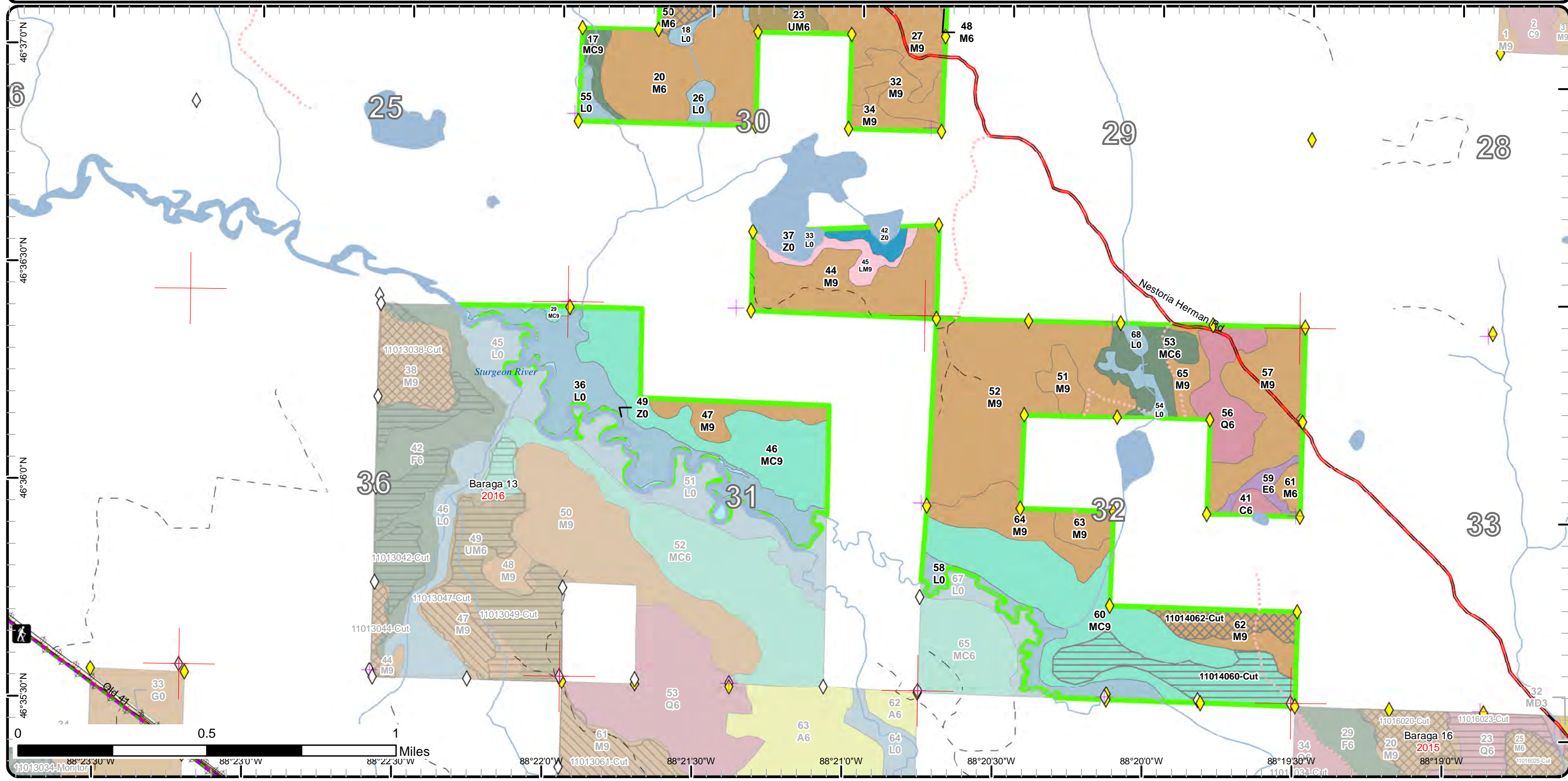


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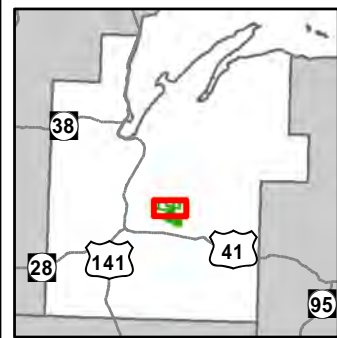


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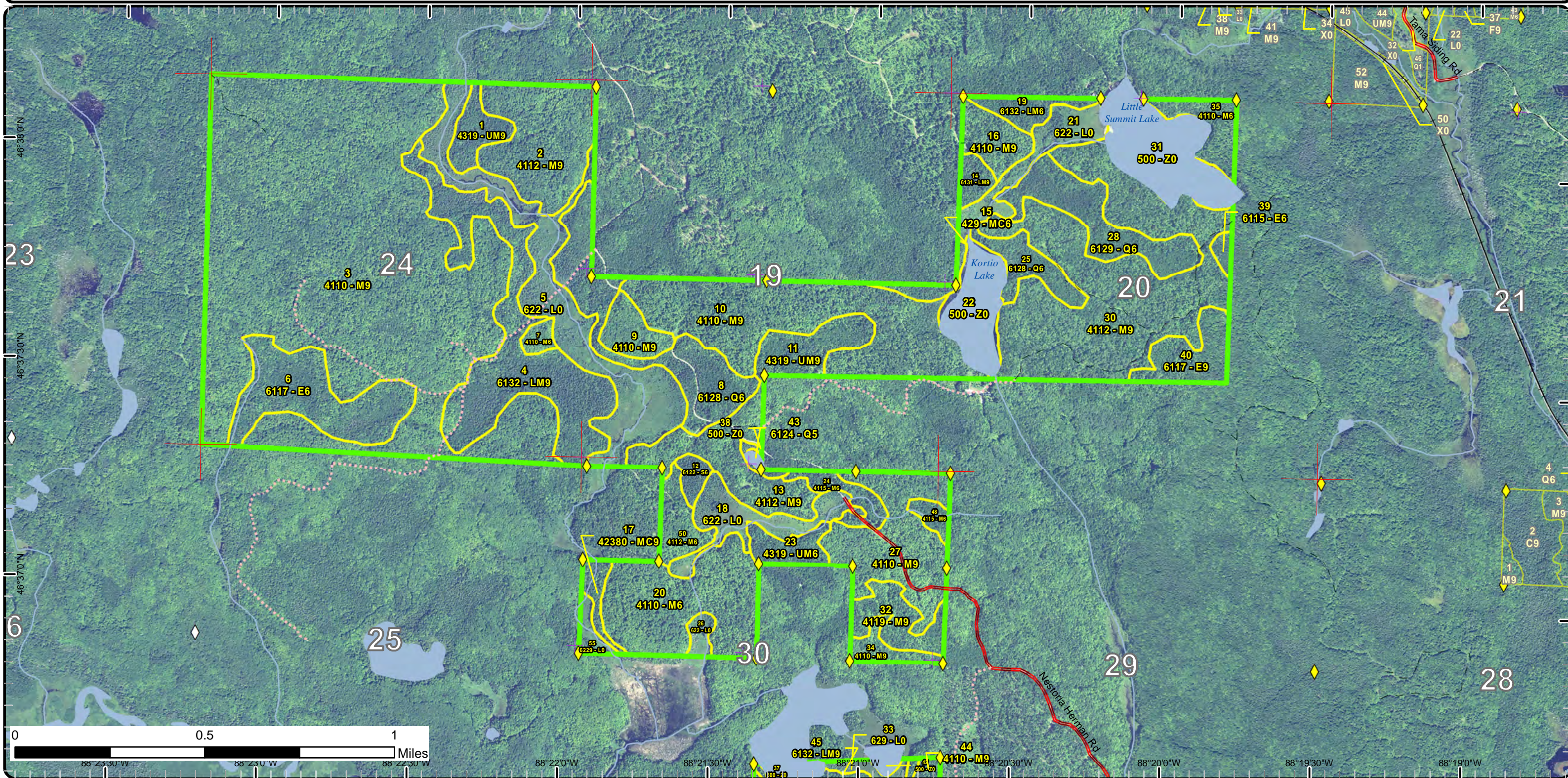


Stand Boundary Map

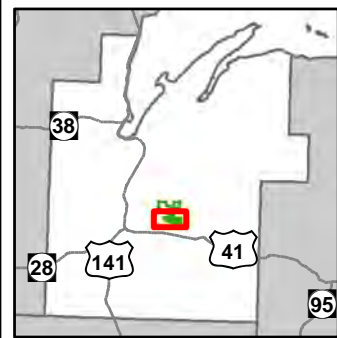


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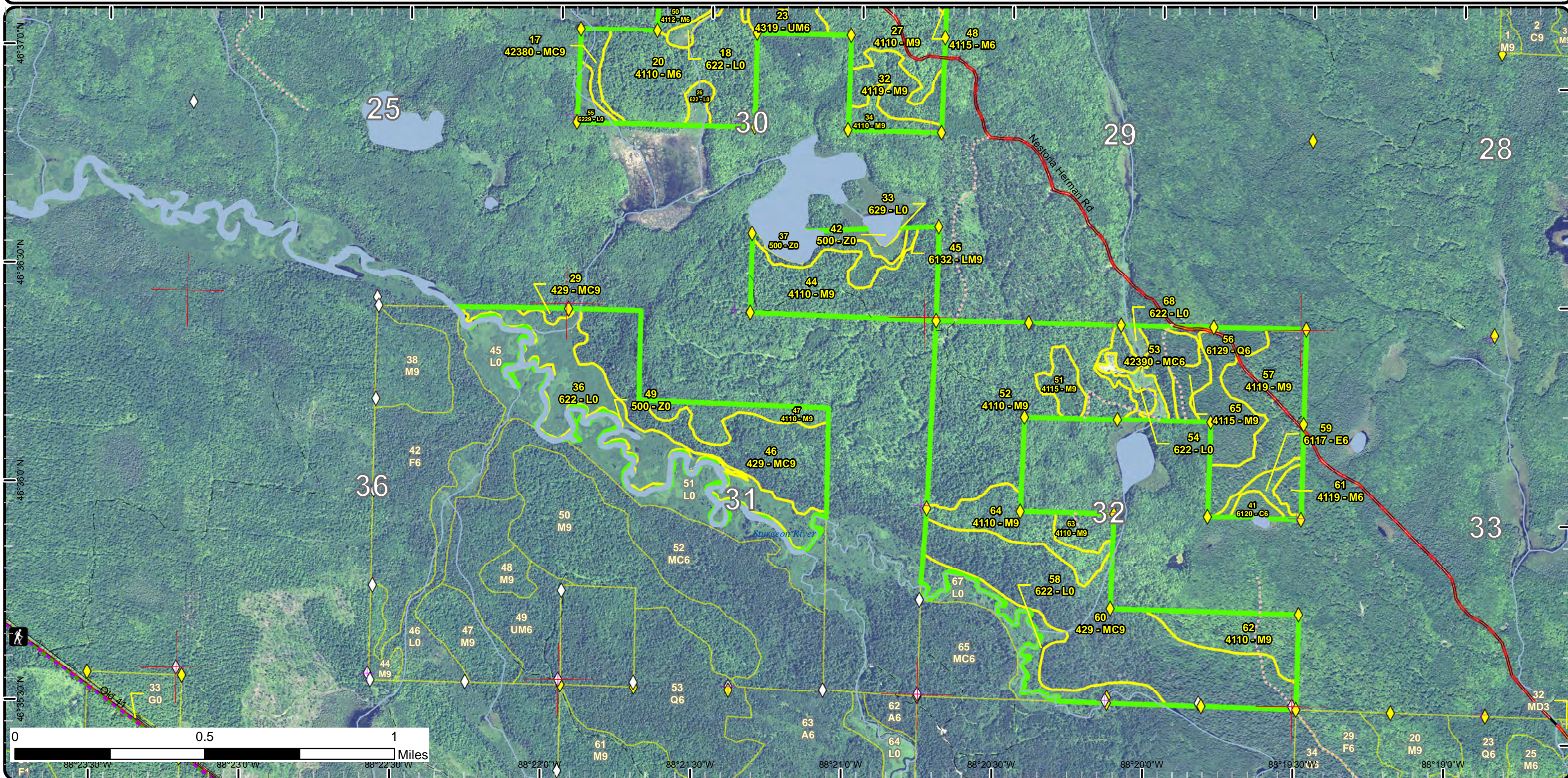


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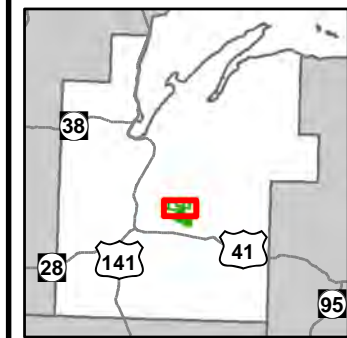
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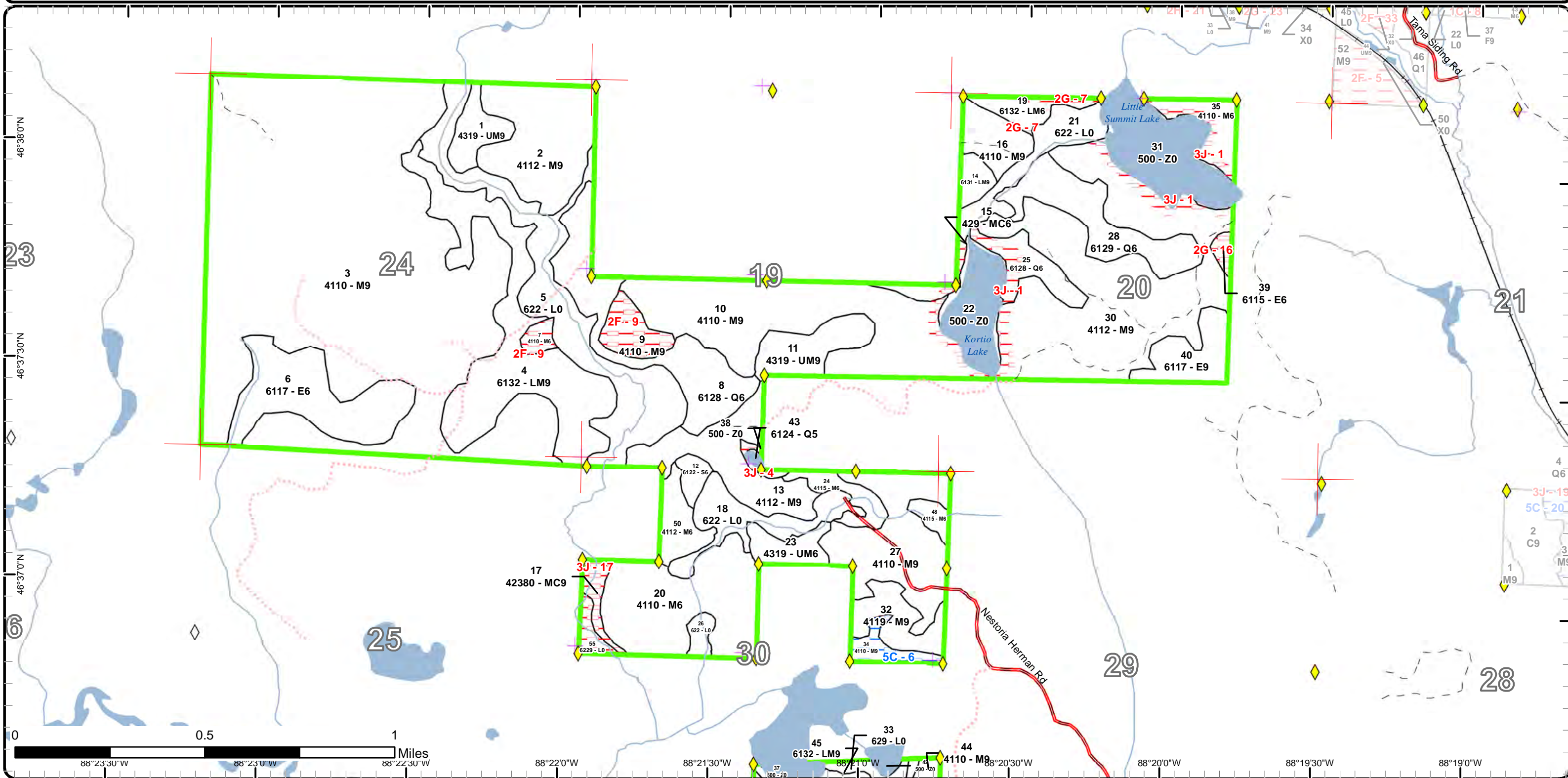


Special Conservation Areas & Site Conditions Map

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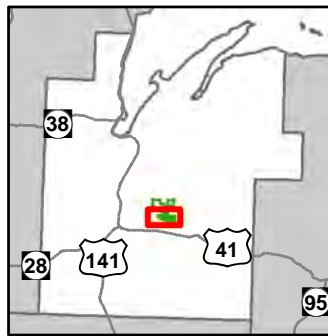


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 - Compartment Boundary
 - Available w/ Constraints
 - Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
 - 2F: Too steep
 - 2G: Too wet (sensitive soils, does not include access issues)
 - 3J: Water quality / BMPs (stream, river, or lake)
 - Stand Boundaries
 - Cold Water Streams
 - Cold Water Lakes

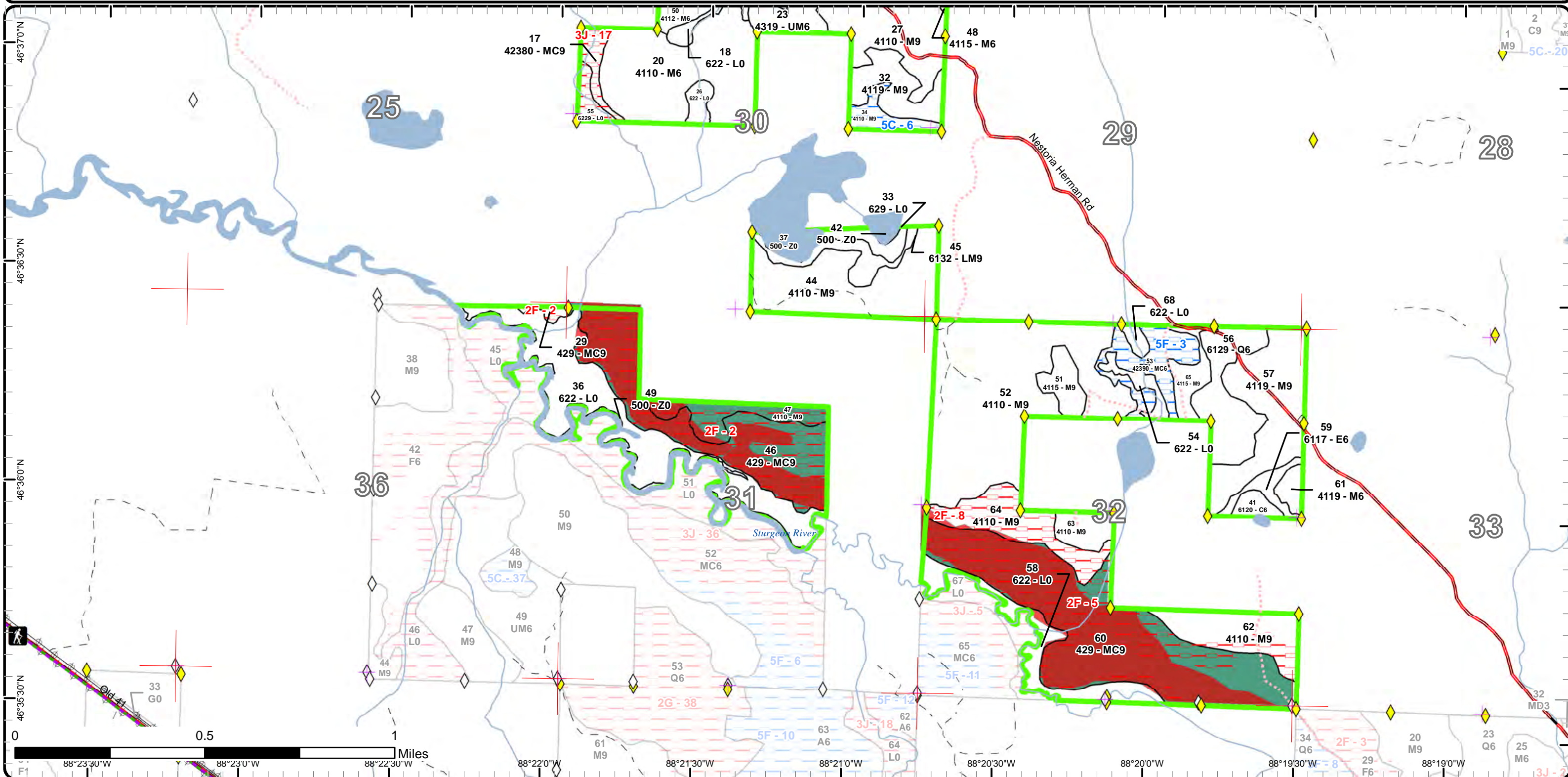


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- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes
- Habitat Corridor



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
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
Lowland Conifers	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	122	124
Lowland Deciduous	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	56	75
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108	108
Lowland Shrub	221	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	220
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1219	1219
Upland Conifers	0	0	0	0	0	0	0	0	20	64	0	0	0	0	0	0	0	124	208
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	44
Water	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82
Total	304	0	0	0	0	0	0	0	20	85	0	0	0	0	0	0	0	1682	2089



Report 2 – Treatment Summary

Baraga Mgt. Unit

Year of Entry: 2019

Acres of Harvest

Compartment 14
Total Compartment Acres: 2,094

Commercial Harvest - 952
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
Lowland Conifers	35	0	0	0	0	43	0	0	0	78
Lowland Deciduous	0	67	0	0	0	0	0	0	0	67
Lowland Mixed Forest	88	0	0	0	0	0	0	0	0	88
Lowland Spruce/Fir	5	0	0	0	0	0	0	0	0	5
Northern Hardwood	0	605	0	30	30	0	0	0	0	665
Upland Conifers	37	0	0	0	0	0	0	0	0	37
Upland Mixed Forest	12	0	0	0	0	0	0	0	0	12
Total	177	672	0	30	30	43	0	0	0	952

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	952	0	0	0	0	0	0	0	0	952
Next Step	0	0	0	0	0	0	952	0	0	952
Total	952	0	0	0	0	0	952	0	0	1903



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	11014001-Cut	12.3	4319 - Mixed Upland Forest	Sawtimber Well	85	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Two-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Clear cut leaving cedar, red oak, black cherry, white pine and hemlock, if present, for retention. Retain all species of trees greater than 24											
<u>Specs:</u> inches DBH. Treatment size may change due to terrain and soil types. Higher ground may be marked through with selection to the east as tree quality justifies.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> any mix of the over story species											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
2	11014002-Cut	50.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	108	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Selectively thin hardwoods to 70-90 sqft of BA. Favor mast producing black cherry and oak, hemlock, white pine and cedar where present. Oak											
<u>Specs:</u> should be released on 3 sides to an average BA of 60 sqft. Where 30 sqft or more of hemlock occurs thin to less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker". Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Any mix of the over story species											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
3	11014003-Cut	335.1	4110 - Sugar Maple Association	Sawtimber Well	85	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Selectively thin hardwoods to 70-90 sqft of BA. Favor mast producing black cherry and oak, hemlock, white pine and cedar where present. Oak											
<u>Specs:</u> should be released on 3 sides to an average BA of 60 sqft. Where 30 sqft or more of hemlock occurs thin to less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker". Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species. treatment size may change due to terrain and soils types.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Any mix of the over story species											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
3	11014003-Cut-NW_MWR	29.9	4110 - Sugar Maple Association	Sawtimber Well	85	111-140	Harvest	Seed Tree	4110 - Sugar Maple Association	Two-Aged	Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Seed tree. A residual density of 6-8 trees per acre (~5-7% overstory cover) will be prescribed by same criteria as shelterwood trees. All top											
<u>Specs:</u> wood >8" is to be left.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> A diverse mix of northern hardwood species.											
<u>Regen:</u>											
<u>Other</u> Tree tops will need to be reduced in size, removed, or piled beneath residual trees to promote accessibility of scarification/herbicide equipment.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2016											



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	Approval Status
3	11014003-Cut-SE_MWR	29.7	4110 - Sugar Maple Association	Sawtimber Well	85	111-140	Harvest	Shelterwood	411 - Northern Hardwood	Two-Aged	Field Boundary

Habitat Cut: No**Site Condition:**

Prescription) Shelterwood. The target of first harvest is to retain 50% canopy cover (~ 50 ft2 ac-1) of seedbearing-sized trees of good form and of diverse, desirable species. Final overstory removal timing is flexible and is anticipated to occur approximately ten years after the first harvest.

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

Acceptable Any combination of the original stands overstory. Sugar Maple is the goal.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2016

4	11014004-Cut	81.6	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	78	111-140	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut leaving cedar, red oak, black cherry, white pine and hemlock, if present, for retention. Retain all species of trees greater than 24 inches DBH. Treatment size may change due to terrain and soil types. Higher ground may be marked through with selection to the west as tree quality justifies.

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

Acceptable Any mix of the over story species
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

6	11014006-Cut	47.2	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	82	111-140	Harvest	Single Tree Selection	6113 - Lowland Maple	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription On the higher ground that's operable. Selectively thin hardwoods to 70-90 sqft of BA. Favor mast producing black cherry and 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 less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker". Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species. treatment size may change due to wet areas.

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

Acceptable Any mix of the over story species
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

8	11014008-Cut	35.1	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	80	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut leaving cedar, red oak, black cherry, white pine and hemlock, if present, for retention. Retain all species of trees greater than 24 inches DBH. Treatment size may change due to terrain and soil types. Higher ground may be marked through with selection to the west as tree quality justifies.

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

Acceptable Any mix of the over story species
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018



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	Approval Status
12	11014012-Cut	5.1	6122 - Black Spruce	Poletimber Well	80	51-80	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Draft Field Boundary

Habitat Cut: No Site Condition:

Prescription Clear cut leaving cedar, red oak, black cherry, white pine and hemlock, if present, for retention. Retain all species of trees greater than 24 inches DBH. Treatment size may change due to terrain and soil types. Higher ground may be marked through with selection to the west as tree quality justifies.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of the over story species

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

13	11014013-Cut	36.9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition:

Prescription Selectively thin hardwoods to 70-90 sqft of BA. Favor mast producing black cherry and 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 less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker". Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species. treatment size may change due to terrain and soils types.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of the over story species

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

16	11014016-Cut	14.9	4110 - Sugar Maple Association	Sawtimber Well	81	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition:

Prescription Selectively thin hardwoods to 70-90 sqft of BA. Favor mast producing black cherry and 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 less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker". Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species. treatment size may change due to terrain and soils types.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of the over story species

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

19	11014019-Cut	6.5	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	81	51-80	Harvest	Clearcut with Retention	6139 - Mixed Lowland Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition:

Prescription Clear cut leaving cedar, red oak, black cherry, white pine and hemlock, if present, for retention. Retain all species of trees greater than 24 inches DBH. Treatment size may change due to terrain and soil types. Higher ground may be marked through with selection to the west as tree quality justifies.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of the over story species

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



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	Approval Status
25	11014025-Cut	9.1	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	73	51-80	Harvest	Crown Thinning	613 - Lowland Mixed Forest	Two-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clear cut leaving cedar, red oak, black cherry, white pine and hemlock, if present, for retention. Retain all species of trees greater than 24 inches DBH. Treatment size may change due to terrain and soil types. Higher ground may be marked through with selection to the east as tree quality justifies.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of the over story species

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

28	11014028-Cut	34.0	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	79	111- 140	Harvest	Crown Thinning	612 - Lowland Coniferous Forest	Two-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut leaving cedar, red oak, black cherry, white pine and hemlock, if present, for retention. Retain all species of trees greater than 24 inches DBH. Treatment size may change due to terrain and soil types. Higher ground may be marked through with selection to the north and south as tree quality justifies.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of the over story species

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

30	11014030-Cut	129.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	80	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Selectively thin hardwoods to 70-90 sqft of BA. Favor mast producing black cherry and 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 less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker". Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of the over story species

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



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	Approval Status
35	11014035-Cut	8.6	4110 - Sugar Maple Association	Poletimber Well	83	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary

Habitat Cut: No Site Condition:

Prescription Selectively thin hardwoods to 70-90 sqft of BA. Favor mast producing black cherry and 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 less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker". Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species. treatment size may change due to terrain and soils types.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of the over story species

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

40	11014040-Cut	19.4	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	88	111-140	Harvest	Single Tree Selection	6117 - Lowland Deciduous, Mixed Coniferous	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition:

Prescription Selectively thin hardwoods to 70-90 sqft of BA. Favor mast producing black cherry and 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 less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker". Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species. treatment size may change due to terrain and soils types.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of the over story species

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

50	11014050-Cut	13.0	4112 - Maple, Beech, Cherry Association	Poletimber Well	94	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition:

Prescription Selectively thin hardwoods to 70-90 sqft of BA. Favor mast producing black cherry and 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 less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker". Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species. treatment size may change due to terrain and soils types.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of the over story species

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



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	Approval Status
60	11014060-Cut	36.8	429 - Mixed Upland Conifers	Sawtimber Well	85	111-140	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Uneven-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Final Harvest all species except white pine, red pine, cedar, oak and hemlock. Treatment size may be reduced due topography. Goal is reduce canopy closure initially to 30% with an overall goal of 50%.

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

Acceptable Any mix of over story species with a preference of long lives conifers such as pine and hemlock.
Regen:

Other Monitor and address invasive species. Block all road post harvest. Prescribe burn post harvest to increase pine establishment.
Comment:

Proposed Start Date: 10/01/2018

62	11014062-Cut	16.6	4110 - Sugar Maple Association	Sawtimber Well	87	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Selectively thin hardwoods to 70-90 sqft of BA. Favor mast producing black cherry and 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 less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker". Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species.

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

Acceptable any mix of the over story species
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

**Total Treatment
Acreage Proposed: 951.7**

Report 4 – Site Conditions

Baraga Mgt. Unit
Ryan Mattila : Examiner

Compartment: 14
Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		5C	5F	2F	2G	3J
4	4	0	0	Cedar					
124	116	0	8	Lowland Conifers					8
75	72	0	3	Lowland Deciduous				3	
108	104	0	3	Lowland Mixed Forest				3	
221	216	0	5	Lowland Shrub			0		5
5	5	0	0	Lowland Spruce/Fir					
1219	1122	8	88	Northern Hardwood	8		65		23
208	40	20	148	Upland Conifers		20	140		8
43	43	0	0	Upland Mixed Forest					
82	82	0	0	Water					
2,090	1,807	28	255	Total Forested Acres	8	20	205	6	45
	86%	1%	12%	Relative Percent					

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Lake buffers							
2	Unavailable	2F: Too steep	79	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
Comments: Area designated as an ERA. stand is primarily the steep slope to the river. Small areas of the stand are level enough for operations but do to the steepness of the access, proximity to the river, and the ERA designation, should not be considered for harvest commercial at this time.							
3	Available	5F: Evaluated for Forest Health Considerations	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Baraga Mgt. Unit
Ryan Mattila : Examiner

Compartment: 14
Year of Entry: 2019

4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2F: Too steep	84	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
Comments: Area is Designated as an ERA. Most of the area is a steep slope or within the river buffer.							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2F: Too steep	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2F: Too steep	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Baraga Mgt. Unit
Ryan Mattila : Examiner

Compartment: 14
Year of Entry: 2019

16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	2F: Too steep	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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.

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Baraga Mgt. Unit

Report 7 – Forested Stands

Compartment: 14
Year of Entry: 2019

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4319 - Mixed Upland Forest	Sawtimber Well	12.3	85	81-110	
4112 - Maple, Beech, Cherry Association	Sawtimber Well	50.2	108	111-140	
4110 - Sugar Maple Association	Sawtimber Well	394.7	85	111-140	
6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	81.6	78	111-140	
6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	47.2	82	111-140	
4110 - Sugar Maple Association	Poletimber Well	4.0	76	111-140	
6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	46.9	80	81-110	
4110 - Sugar Maple Association	Sawtimber Well	12.5	92	111-140	
4110 - Sugar Maple Association	Sawtimber Well	96.1	92	81-110	cut in the winter of 2010-2011 as part of "Hose Hdwds" 11-004-09-01.
4319 - Mixed Upland Forest	Sawtimber Well	20.1	94	81-110	stand not visited during 2017 inventory cycle
6122 - Black Spruce	Poletimber Well	5.1	80	51-80	
4112 - Maple, Beech, Cherry Association	Sawtimber Well	36.9	95	111-140	
6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	6.2	96	81-110	
429 - Mixed Upland Conifers	Poletimber Well	5.4	71	81-110	stand not visited during 2017 inventory
4110 - Sugar Maple Association	Sawtimber Well	14.9	81	111-140	
42380 - Non Pine Upland Conifer, Mixed Deciduous	Sawtimber Well	6.3	70	111-140	
6132 - Mixed Lowland Forest with Cedar	Poletimber Well	9.8	81	51-80	
4110 - Sugar Maple Association	Poletimber Well	61.6	94	81-110	

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Baraga Mgt. Unit

Report 7 – Forested Stands

Compartment: 14
Year of Entry: 2019

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4319 - Mixed Upland Forest	Poletimber Well	11.1	74	81-110	
4115 - Y.Birch, Hemlock NH	Poletimber Well	10.0	67	51-80	
6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	15.2	73	51-80	
4110 - Sugar Maple Association	Sawtimber Well	50.5	87	81-110	
6129 - Mixed Coniferous Lowland Forest	Poletimber Well	34.0	79	111-140	
429 - Mixed Upland Conifers	Sawtimber Well	1.9	85	111-140	
4112 - Maple, Beech, Cherry Association	Sawtimber Well	142.4	80	81-110	
4119 - Mixed Northern Hardwoods	Sawtimber Well	17.7	77	81-110	
4110 - Sugar Maple Association	Sawtimber Well	8.1	84	111-140	
4110 - Sugar Maple Association	Poletimber Well	14.3	83	111-140	
6115 - Lowland Ash	Poletimber Well	2.9	79	51-80	
6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	19.4	88	111-140	
6120 - Lowland Cedar	Poletimber Well	4.3	92	141-170	
6124 - Lowland Spruce-Fir	Poletimber Medium	2.2	88	81-110	
4110 - Sugar Maple Association	Sawtimber Well	48.6	86	81-110	Cut as part of Dommer Lake Hardwood 11-005-09-01
6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	10.1	80	81-110	
429 - Mixed Upland Conifers	Sawtimber Well	62.2	85	111-140	Due to location and site condition stand not visited during 2017 inventory cycle.
4110 - Sugar Maple Association	Sawtimber Well	15.2	92	141-170	

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Baraga Mgt. Unit

Report 7 – Forested Stands

Compartment: 14
Year of Entry: 2019

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4115 - Y.Birch, Hemlock NH	Poletimber Well	4.5	91	111-140	Trace of Oak in stand
4112 - Maple, Beech, Cherry Association	Poletimber Well	13.0	94	111-140	
4115 - Y.Birch, Hemlock NH	Sawtimber Well	9.0	75	81-110	Cut as part of Dommer Lake Hardwood 11-005-09-01
4110 - Sugar Maple Association	Sawtimber Well	100.7	83	81-110	Cut as part of Dommer Lake Hardwood 11-005-09-01
42390 - Mixed Non- Pine Upland Conifers	Poletimber Well	19.8	79	81-110	
6129 - Mixed Coniferous Lowland Forest	Poletimber Well	26.1	100	81-110	
4119 - Mixed Northern Hardwoods	Sawtimber Well	42.1	77	81-110	Cut as part of Dommer Lake Hardwood 11-005-09-01
6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	5.9	92	111-140	
429 - Mixed Upland Conifers	Sawtimber Well	112.3	85	111-140	
4119 - Mixed Northern Hardwoods	Poletimber Well	4.3	92	81-110	Cut as part of Dommer Lake Hardwood 11-005-09-01
4110 - Sugar Maple Association	Sawtimber Well	24.5	87	111-140	
4110 - Sugar Maple Association	Sawtimber Well	8.8	83	81-110	Cut as part of Dommer Lake Hardwood 11-005-09-01
4110 - Sugar Maple Association	Sawtimber Well	25.2	83	111-140	
4115 - Y.Birch, Hemlock NH	Sawtimber Well	9.0	86	81-110	Cut as part of Dommer Lake Hardwood 11-005-09-01



Stand	Cover Type	Acres	Managed Site	General Comments:
5	622 - Lowland Shrub	74.0	No	
18	622 - Lowland Shrub	23.7	No	
21	622 - Lowland Shrub	20.2	No	
22	500 - Water	25.0	No	
26	622 - Lowland Shrub	4.2	No	
31	500 - Water	38.0	No	
33	629 - Mixed non-forested wetland	8.0	No	
36	622 - Lowland Shrub	56.3	No	
37	500 - Water	3.5	No	
38	500 - Water	0.8	No	
42	500 - Water	1.5	No	
49	500 - Water	13.7	No	
54	622 - Lowland Shrub	5.3	No	
55	6229 - Mixed lowland shrub	4.7	No	
58	622 - Lowland Shrub	21.5	No	
68	622 - Lowland Shrub	2.6	No	