



Compartment Review Presentation

Baraga Forest Management Unit

Compartment 11053

Entry Year 2017

Acreage: 979

County Houghton

Management Area: Central Houghton

Revision Date: 2014-12-01

Stand Examiner:

Legal Description:

T52N R36W, Sections 34, and 35.

Identified Planning Goals:

Soil and topography:

Soils are Munising loamy fine sand, Kalkaska sand, Halfaday sand, and Munising-Skanee complex. Topography is level to slightly rolling. The compartment is level to rolling topography. The only steep terrain is along Bruno Creek and the depression in the north part of the compartment.

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

This is part of a block of state forest land (to the east). The lands to the south, west and north are a mix of small private and forest industry. The land to the east of the campground is part of a plat. Land use is predominantly forest industry, although there are seasonal cottages and one permanent home in the surrounding area.

Unique Natural Features:

There is a deep depression in the northwest corner of section 35.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

The compartment is within the Otter River Watershed. Bruno Creek and several of its tributaries (trout streams) are within the compartment. Emily Lake and some unnamed lakes are also within the compartment.

Wildlife Habitat Considerations:

Loons are found on Emily Lake. Hard and soft mast in this compartment supports a good bear population. Mesic conifer regeneration is not impacted by deer browsing. Feature oak where present.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured glacial till. The glacial drift thickness varies between 100 and 400 feet. The Precambrian Jacobsville Sandstone subcrops below the glacial drift. The Jacobsville was previously used as a building stone. The nearest gravel pit is located one mile to the northwest and potential appears to be good. Abandoned copper mines and crushed basalt piles are located one mile to the northwest. This area was not previously leased for metallic development. There is no economic oil and gas production in the UP.

Vehicle Access:

Access in good in the west half of the compartment (via county roads). Access east is achieved off snowmobile trail 109 (the Alston Trail) or from the road that borders the south of the compartment.

Survey Needs:

Survey work will be needed.

Recreational Facilities and Opportunities:

There is a state forest campground on Emily Lake. Snowmobile trail 109 is just north of the compartment boundary.

Fire Protection:

This is not a fire prone area.

Additional Compartment Information:

The following reports from the Inventory are attached:

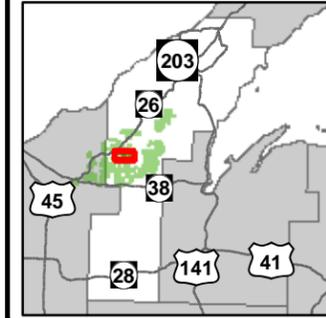
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

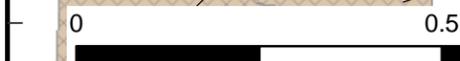
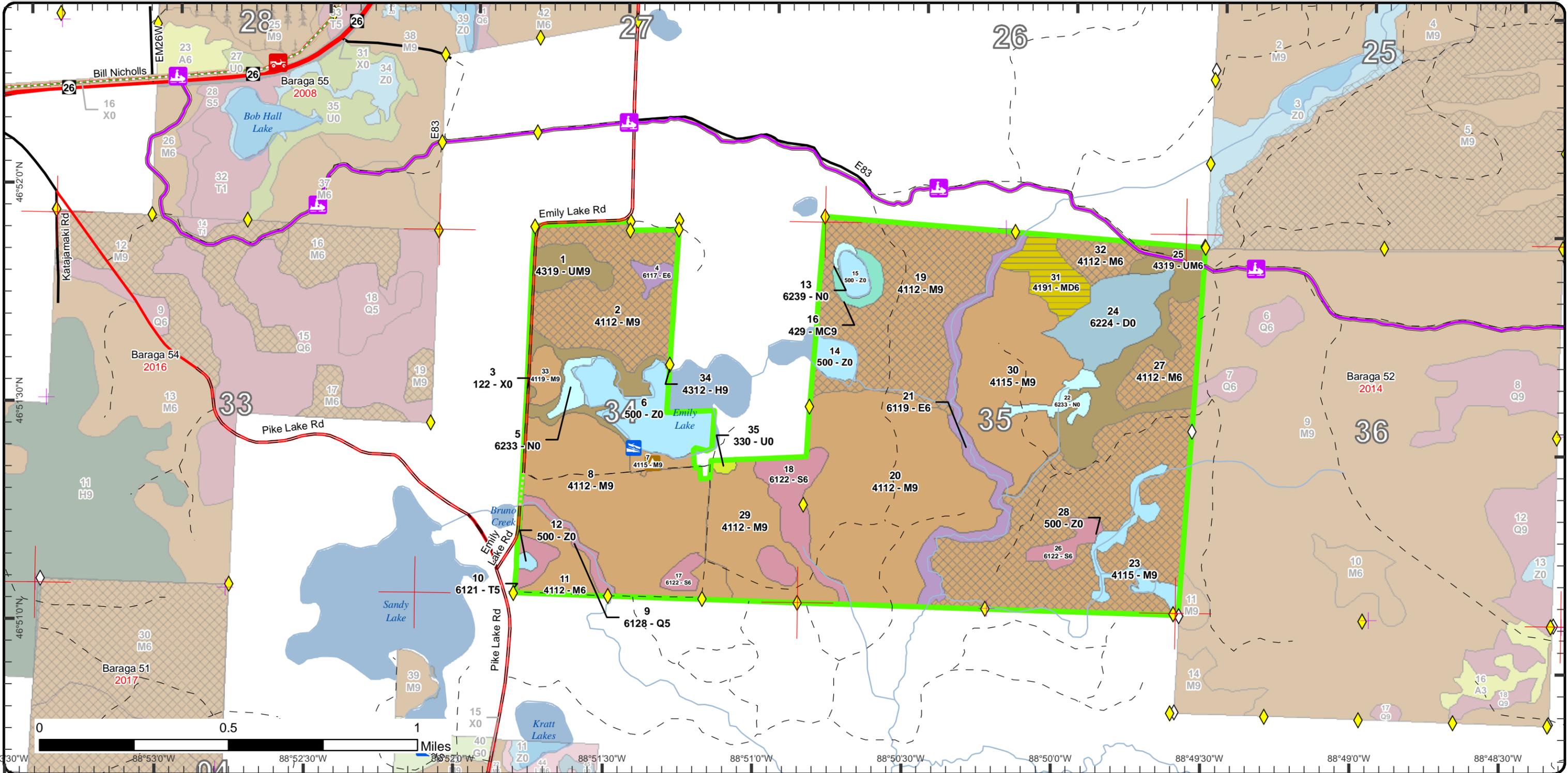
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments

Compartment: 53
 T52N, R36W, Sec. 34, 35
 County: Houghton
 Unit: Baraga
 Mgmt Area: Central Houghton
 YOE: 2017
 Acres: 979 GIS Calculated
 Examiner: Fred Hansen
 Map Revised: 5/19/2015
 Map Phase: Pre-Review



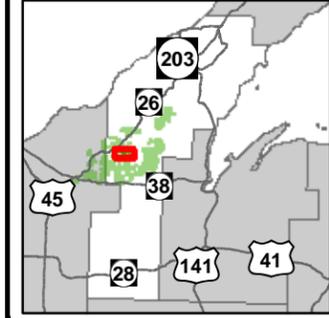
- | | | | |
|---|---|---|--|
| <ul style="list-style-type: none"> ✚ Remonumented Section Corners ◆ Survey Grade GPS Corners ◇ Field Grade GPS Corners — Miris Corners — Highway — County Paved Roads — Paved Roads — County Gravel Roads — Poor Dirt Roads — Closed Roads 🚤 Boating Access Site 🏕 Campground | <ul style="list-style-type: none"> 🚗 ORV Routes 🛷 Snowmobile Trails — Hiking Pathways — Bicycle/Dirt Bike Trails — Ski Trails — ORV Route 🛷 Snowmobile Trails 🚂 Rail to Trails — Rivers 🌊 Lakes | <p>Treatments</p> <ul style="list-style-type: none"> 🔲 Selection (Group, Single Tree) 🔲 Clearcut (w/Reserves) <p>Forest Covertype</p> <ul style="list-style-type: none"> 411 - Northern Hardwood 419 - Mixed Upland Deciduous 429 - Mixed Upland Conifers 430 - Upland Mixed Fores 611 - Lowland Deciduous Forest 612 - Lowland Coniferous Forest | <p>Non-Forest Covertype</p> <ul style="list-style-type: none"> 122 - Roads/Parking Lot 330 - Low Density Trees 500 - Water 622 - Lowland Shrub 623 - Emergent Wetland |
|---|---|---|--|



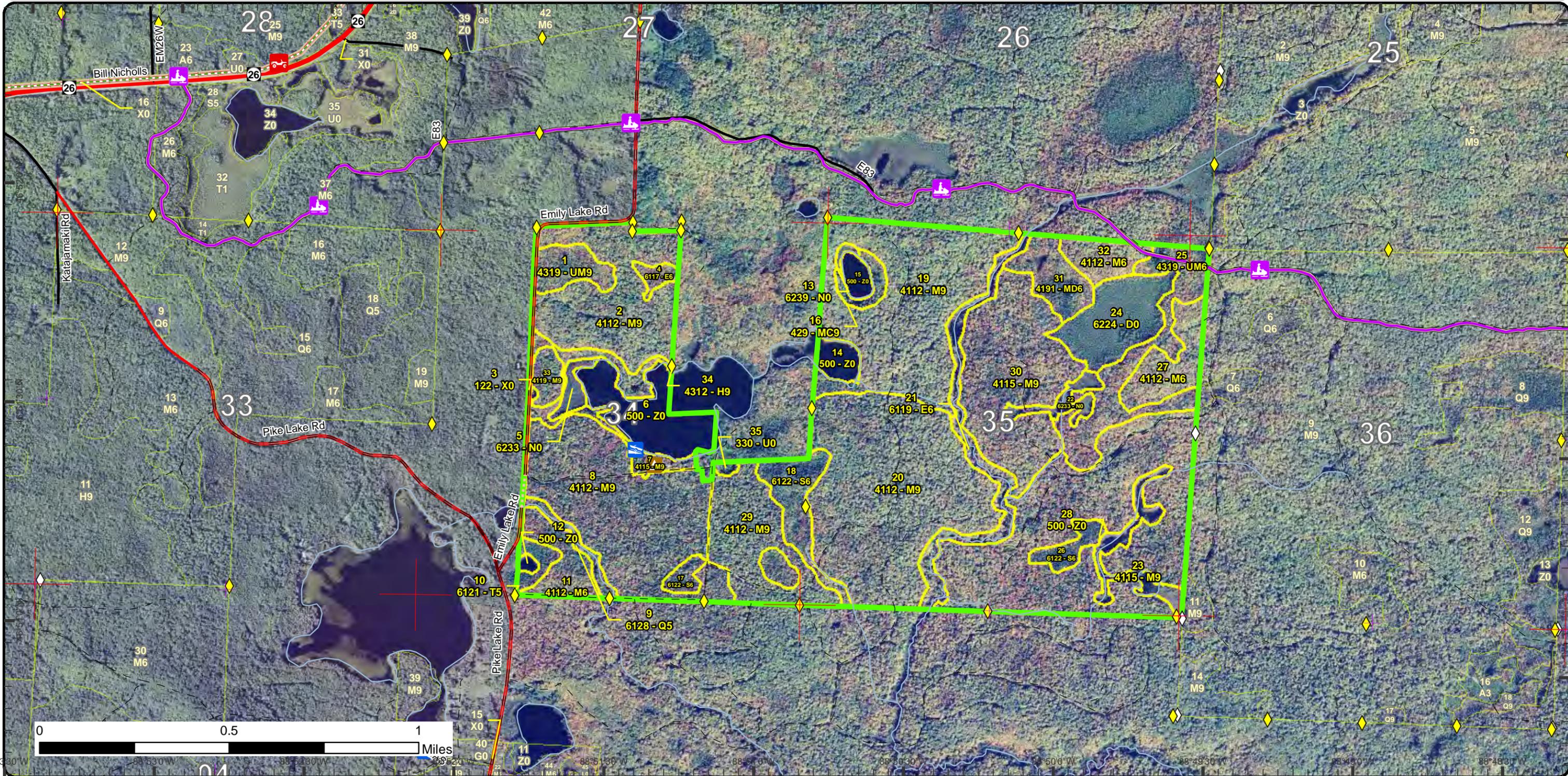
88°53'30"W 88°53'0"W 88°52'30"W 88°52'0"W 88°51'30"W 88°51'0"W 88°50'30"W 88°50'0"W 88°49'30"W 88°49'0"W 88°48'30"W

Stand Boundary Map

Compartment: 53
 T52N, R36W, Sec. 34, 35
 County: Houghton
 Unit: Baraga
 Mgmt Area: Central Houghton
 YOE: 2017
 Acres: 979 GIS Calculated
 Examiner: Fred Hansen
 Map Revised: 5/19/2015
 Map Phase: Pre-Review

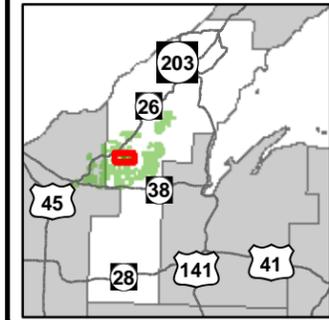


- ✚ Remonumented Section Corners
 - ◆ Survey Grade GPS Corners
 - ◇ Field Grade GPS Corners
 - Miris Corners
 - Highway
 - County Paved Roads
 - Paved Roads
 - County Gravel Roads
 - Poor Dirt Roads
 - Closed Roads
 - 🚤 Boating Access Site
 - 🏕 Campground
 - 🚗 ORV Routes
 - 🛷 Snowmobile Trails
 - Hiking Pathways
 - Bicycle/Dirt Bike Trails
 - Ski Trails
 - ORV Route
 - 🛷 Snowmobile Trails
 - 🚂 Rail to Trails
 - Rivers
 - 🟡 Stand Boundaries
- Forest Covertypes**
- 411 - Northern Hardwood
 - 419 - Mixed Upland Deciduous
 - 429 - Mixed Upland Conifers
 - 430 - Upland Mixed Fores
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
- Non-Forest Covertypes**
- 122 - Roads/Parking Lot
 - 330 - Low Density Trees
 - 500 - Water
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland



Special Conservation Areas & Site Conditions Map

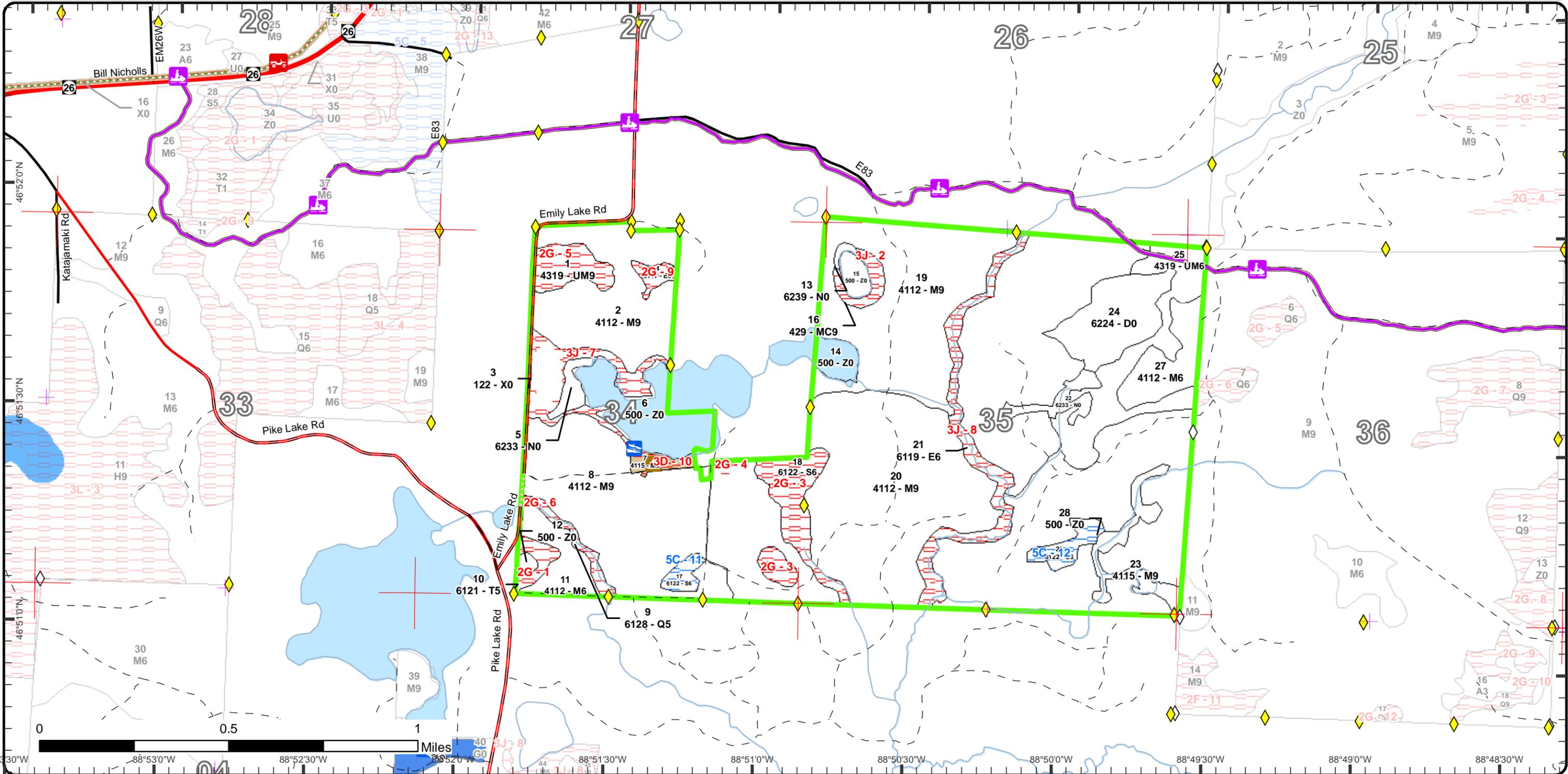
Compartment: 53
 T52N, R36W, Sec. 34, 35
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- ✚ Remonumented Section Corners
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- Bicycle/Dirt Bike Trails
- Ski Trails
- ORV Route
- Snowmobile Trails
- Rail to Trails
- Rivers
- Stand Boundaries

- Site Condition**
- Available w/ Constraints
 - Unavailable
- Available Factors W/ Constraints**
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors**
- 2G: Too wet (sensitive soils, does not include access issues)
 - 3D: Recreational / Scenic values

- 3J: Water quality / BMPs (stream, river, or lake)**
- Cold Water Streams
 - Cold Water Lakes
 - High Priority Trout Stream Buffer
 - Boat Access Site
 - State Forest Campground



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
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	14
Low-Density Trees	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	8	0	4	24	0	0	0	0	0	0	36
Marsh	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	17
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	704	704
Tamarack	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	5
Treed Bog	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53	53
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Total	107	0	25	0	4	24	5	0	0	0	0	813	978						



Report 2 – Treatment Summary

Baraga Mgt. Unit
Year of Entry: 2017

Acres of Harvest

Compartment 53
Total Compartment Acres: 979

Commercial Harvest - 347
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
Mixed Upland Deciduous	17	0	0	0	0	0	0	0	0	17
Northern Hardwood	0	330	0	0	0	0	0	0	0	330
Total	17	330	0	0	0	0	0	0	0	347

Proposed and Next Step Treatments by Harvest Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	347	0	0	0	0	0	0	0	0	347
Next Step	0	0	0	0	0	347	0	0	0	347
Total	347	0	0	0	0	347	0	0	0	694



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
2	11053002-Mark	63.1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	69	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal - Approval Pending Edits

Habitat Cut: No**Site Condition: None**

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 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
Treatments:

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

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

19	11053019-Mark	97.4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	109	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal - Approval Pending Edits
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Habitat Cut: No**Site Condition: None**

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 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
Treatments:

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

Regen:

Other possible MNFI hit. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

23	11053023-Mark	136.0	4115 - Y.Birch, Hemlock NH	Sawtimber Well	109	81-110	Harvest	Single Tree Selection	4199 - Other Mixed Upland Deciduous	Uneven-Aged	Proposal - Approval Pending Edits
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Habitat Cut: No**Site Condition: None**

Prescription Selectively thin hardwoods to 70-90 sqft of BA. Favor yellow birch, 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
Treatments:

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

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
27	11053027-Mark	21.0	4112 - Maple, Beech, Cherry Association	Poletimber Well	109	111-140	Harvest	Single Tree Selection	4199 - Other Mixed Upland Deciduous	Uneven-Aged	Proposal - Approval Pending Edits

Habitat Cut: No**Site Condition: None**

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 less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker".

Next Step
Treatments:

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

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

31	11053031-CCut	17.3	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	75	111-140	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	Proposal - Approval Pending Edits
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Habitat Cut: No**Site Condition: None**

Prescription Harvest all species down to 4.6 inches DBH except cedar, hemlock and white pine. Also reserve red oak over 18" Dbh and cedar if they are present. Retention for this stand will be greater than 3% and will consist of reserve tree species. Buffer out vernal pond.

Next Step
Treatments:

Acceptable Aspen/fir
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

32	11053032-Mark	12.4	4112 - Maple, Beech, Cherry Association	Poletimber Well	71	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal - Approval Pending Edits
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Habitat Cut: No**Site Condition: None**

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 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
Treatments:

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

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

Total Treatment Acreage Proposed: 347.2

Report 5 – Site Conditions

Baraga Mgt. Unit
Fred Hansen : Examiner

Compartment: 53
Year of Entry: 2017

Dominant Site Conditions

	3D	3J	5C
Hemlock		14	
Low-Density Trees			
Lowland Conifers			
Lowland Deciduous		26	
Lowland Spruce/Fir			12
Marsh			
Mixed Upland Deciduous			
Northern Hardwood	5		
Tamarack			
Treed Bog			
Upland Conifers		6	
Upland Mixed Forest			
Urban			
Water			
Total Forested Acres	5	45	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	2G: Too wet (sensitive soils, does not include access issues)	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Baraga Mgt. Unit
Fred Hansen : Examiner

Compartment: 53
Year of Entry: 2017

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	2F: Too steep	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	26	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Baraga Mgt. Unit
Fred Hansen : Examiner

Compartment: 53
Year of Entry: 2017

9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3D: Recreational / Scenic values	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Emily Lake Campground.							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 6 – 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 7 – 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.

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Baraga Mgt. Unit

Report 8 – Forested Stands

Compartment: 53
Year of Entry: 2017

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4319 - Mixed Upland Forest	Sawtimber Well	12.7	79	111-140	
2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	63.1	69	111-140	
4	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	3.8	64	111-140	
7	4115 - Y.Birch, Hemlock NH	Sawtimber Well	4.9	109	111-140	Emily Lk SFCG - Cut in 2008
8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	98.8	109	81-110	Cut in 2008
9	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	5.6	70	Unspecified	Wet drainage.
10	6121 - Tamarack	Poletimber Medium	5.3	117	51-80	
11	4112 - Maple, Beech, Cherry Association	Poletimber Well	16.4	109	81-110	cut in 2008
16	429 - Mixed Upland Conifers	Sawtimber Well	5.5	109	Unspecified	
17	6122 - Black Spruce	Poletimber Well	4.4	94	111-140	WET WET
18	6122 - Black Spruce	Poletimber Well	24.1	109	81-110	
19	4112 - Maple, Beech, Cherry Association	Sawtimber Well	97.4	109	81-110	
20	4112 - Maple, Beech, Cherry Association	Sawtimber Well	129.1	109	81-110	Cut in 2008.
21	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	25.9	109	Unspecified	Stand is both : upland and lowland because it includes the side slopes to the drain which are upland and the bottom with the drain in it which is lowland. Few supercanopy W Pine in the stand.
23	4115 - Y.Birch, Hemlock NH	Sawtimber Well	136.3	109	81-110	Cut in 1998. Areas with low ba's (due to aspen removal) may be excluded from sale. Lots of wet areas.
25	4319 - Mixed Upland Forest	Poletimber Well	40.2	73	111-140	possible trespass along blue line... maybe 2 ch over
26	6122 - Black Spruce	Poletimber Well	7.6	78	111-140	

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Baraga Mgt. Unit

Report 8 – Forested Stands

Compartment: 53
Year of Entry: 2017

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
27	4112 - Maple, Beech, Cherry Association	Poletimber Well	21.0	109	111-140	
29	4112 - Maple, Beech, Cherry Association	Sawtimber Well	42.8	71	81-110	Cut in 2008. Emily Lake Hdwd.
30	4115 - Y. Birch, Hemlock NH	Sawtimber Well	75.4	109	81-110	Cut in 1998. Areas with low ba's (due to aspen removal) may be excluded from sale. Lots of wet areas. possible cut next in 2027
31	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	17.3	75	111-140	
32	4112 - Maple, Beech, Cherry Association	Poletimber Well	12.4	71	111-140	possible trespass along blue line... maybe 2 ch over
33	4119 - Mixed Northern Hardwoods	Sawtimber Well	6.8	69	81-110	Cut in 2008, Emily Lake Hdwd.
34	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	14.1	110	111-140	RMZ along lake shore. Steep Slopes.



Stand	Cover Type	Acres	Managed Site	General Comments:
3	122 - Road/Parking Lot	2.4	No	
5	6233 - Wet Meadow	5.0	No	
6	500 - Water	31.5	No	Emily Lake
12	500 - Water	1.3	No	
13	6239 - Mixed Emergent Wetland	1.1	No	Side slope to a sinkhole lake - 45% + slope.
14	500 - Water	7.0	No	
15	500 - Water	4.9	No	
22	6233 - Wet Meadow	7.6	No	
24	6224 - Treed Bog	31.3	No	
28	500 - Water	14.4	No	
35	330 - Low-Density Trees	1.2	No	WET Bog...down in a hole