



# Compartment Review Presentation

## Baraga Forest Management Unit

Compartment 11039

Entry Year 2020

Acreage: 620

County Houghton

Management Area: Central Houghton

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**Revision Date:** 2018-03-07

**Stand Examiner:** Fred Hansen

**Legal Description:**

Portage Township  
T52N, R35W, Sections 15, 16 and 21.

**Identified Planning Goals:**

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

**Soil and topography:**

The compartment is fairly level. Upland soils are: Munising loamy fine sand, Kalkaska sand, Croswell sand and AuGres sand. Lowland soils are: Tawas and Roscommon mucks.

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

The Surrounding land consists of State, Industrial and private parcels. Both State and Industrial lands are managed primarily for timber. Private parcels are used for recreation purposes as well as timber production.

**Unique Natural Features:**

MNFI recognizes the potential for red-shouldered hawk, northern goshawk, gray wolf, and moose.

**Archeological, Historical, and Cultural Features:**

None.

**Special Management Designations or Considerations:**

BMP guidelines should be followed around the intermittent streams.

**Watershed and Fisheries Considerations:**

There are several streams in the compartment; North Branch Bear Creek, Small Bear Creek and Bart Creek which are all tributaries to the Otter River Watershed.

**Wildlife Habitat Considerations:**

Favor mesic conifers; White Pine and Hemlock, as well Northern Red Oak.

**Mineral Resource and Development Concerns and/or Restrictions**

There is no history of sand & gravel production in the area, but there should be some potential within the compartment. There is no history of leasing within the compartment. However, there has been some exploration for copper. Data from those exploration efforts is not readily available, but potential for copper in this area is low. There is no other known metallic mineral potential within the compartment. There is no economic oil and gas production in the UP.

**Vehicle Access:**

The Donken-Tapiola Road passes through the North half of Section 15. There are also several other forest roads in fair to poor condition in the compartment.

**Survey Needs:**

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

**Recreational Facilities and Opportunities:**

The area gets some small game, bear and deer hunting use. Streams in this compartment also provide some excellent brook trout fishing.

**Fire Protection:**

Fire activity in this area is minimal.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

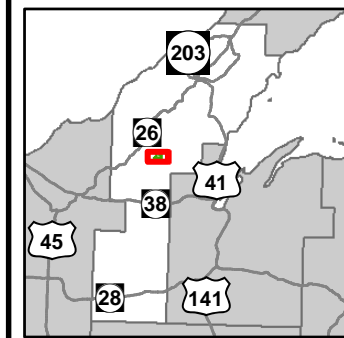
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

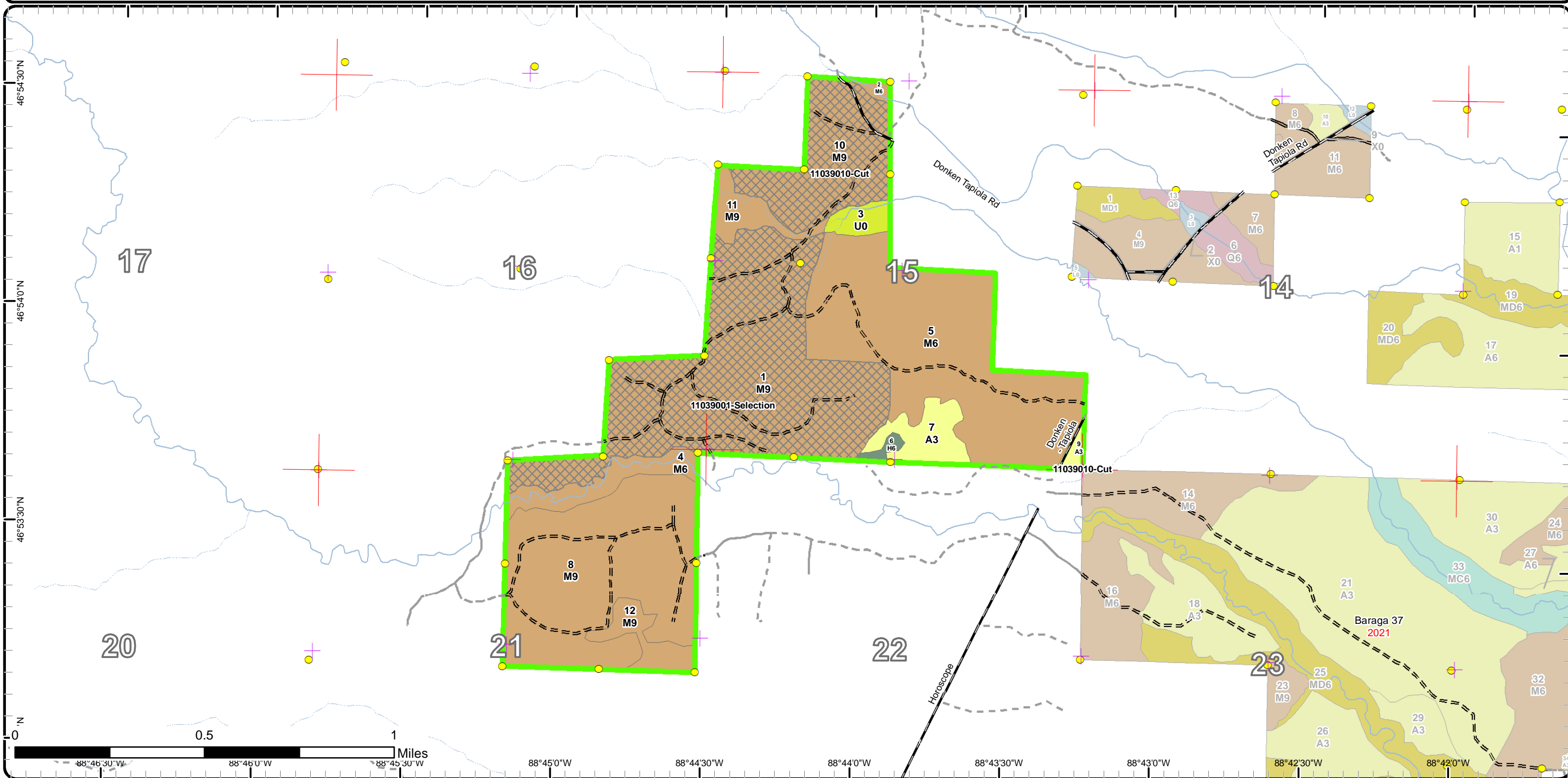
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 39  
 T52N, R35W, Sec: 15, 16, 21  
 County: Houghton  
 Unit: Baraga  
 Mgmt Area: Central Houghton  
 YOE: 2020  
 Acres: 620 GIS Calculated  
 Examiner: Fred Hansen  
 Map Revised: 4/19/2019  
 Map Phase: Post Review



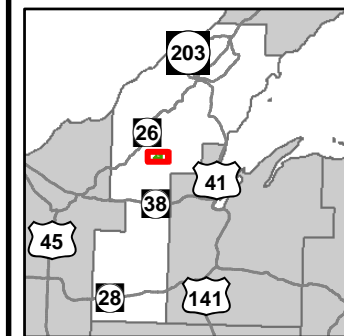
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Compartment Boundary
- Selection (Group, Single Tree)
- 413 - Aspen
- 423 - Other Upland Conifers
- 330 - Low Density Trees
- 411 - Northern Hardwood



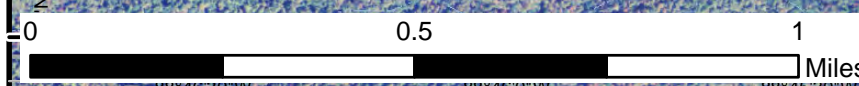
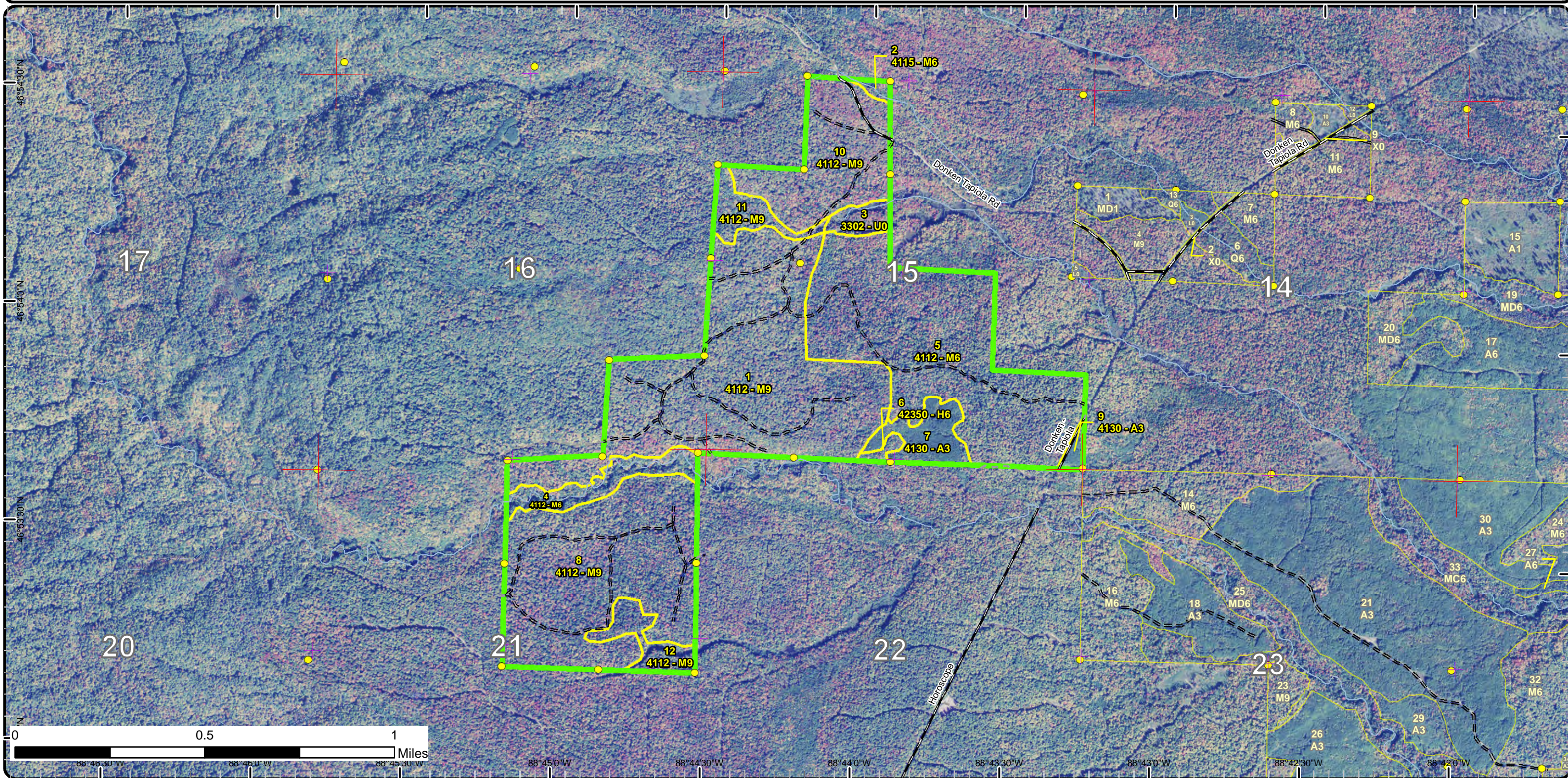


# Stand Boundary Map

Compartment: 39  
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  - Private - Dirt / Gravel Road
  - Intermittent Stream
  - Perennial River
  - Compartment Boundary
  - Stand Boundaries
- |  |                             |
|--|-----------------------------|
|  | 413 - Aspen                 |
|  | 423 - Other Upland Conifers |
|  | 330 - Low Density Trees     |

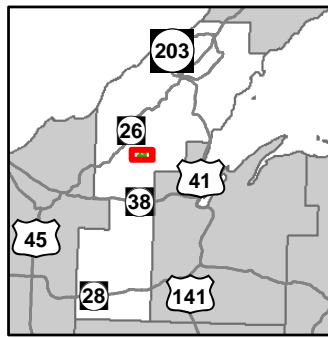


88°46'30" W
88°46'0" W
88°45'30" W
88°45'0" W
88°44'30" W
88°44'0" W
88°43'30" W
88°43'0" W
88°42'30" W
88°42'0" W

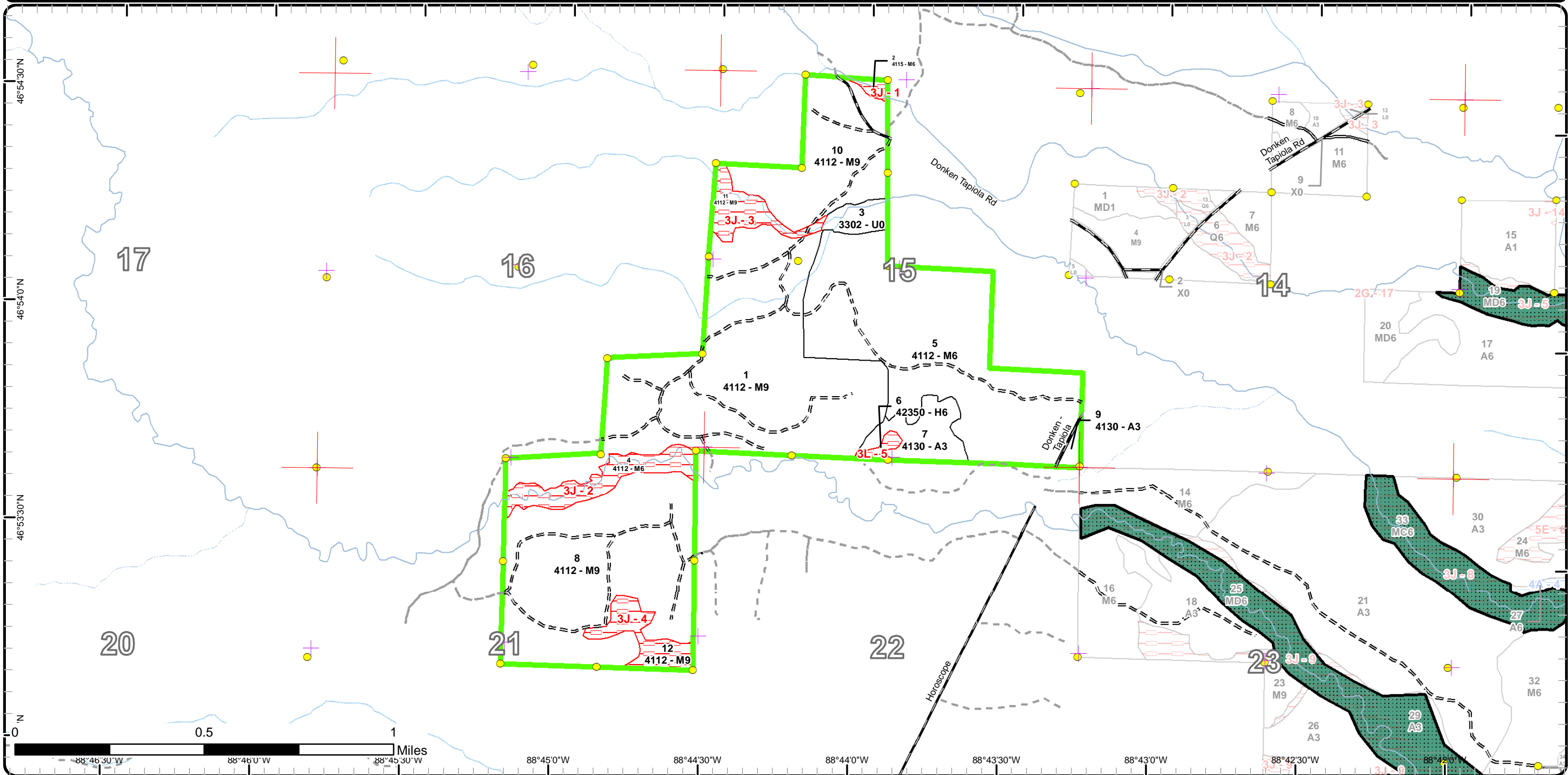


# Special Conservation Areas & Site Conditions Map

Compartment: 39  
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- Miris Corners
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- Counties
- DNR - Primary Forest Road
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- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Compartment Boundary
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- Stand Boundaries
- SCA
- Cold Water Streams
- 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
Aspen	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3
Low-Density Trees	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	588	588
<b>Total</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>588</b>	<b>621</b>	



## Report 2 – Treatment Summary

Baraga Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 39  
Total Compartment Acres: 620

Commercial Harvest - 250  
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
Northern Hardwood		0	250	0	0	0	0	0	0	0	250
	<b>Total</b>	<b>0</b>	<b>250</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250</b>

### Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		250	0	0	0	0	0	0	0	0	250
Next Step		0	0	0	0	0	250	0	0	0	250
	<b>Total</b>	<b>250</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>499</b>



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
1	11039001-Selection	188.1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	98	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal - Approval Pending Edits

**Habitat Cut: No****Site Condition:**

Prescription Specs: Selectively thin hardwoods to 80-100 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".

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

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

Other Comment: Retention: 3-10% BA will be the retention for this stand.

Proposed Start Date: 10/1 /2019

10	11039010-Cut	61.5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	98	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal - Approval Pending Edits
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**Habitat Cut: No****Site Condition:**

Prescription Specs: Selectively thin hardwoods to 80-100 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".

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

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

Other Comment: Retention: 3-10% BA will be the retention for this stand.

Proposed Start Date: 10/1 /2019

**Total Treatment Acreage Proposed: 249.6**



## Report 4 – Site Conditions

Baraga Mgt. Unit  
Fred Hansen : Examiner

Compartment: 39  
Year of Entry: 2020

### Availability for Management

Total Acres	Acres Available	Acres <i>Acres Avail</i> <i>With Condition</i>	Acres Not Available	Dominant Site Conditions		
				3J	3L	
22	22	0	0	Aspen		
3	0	0	3	Hemlock		3
8	8	0	0	Low-Density Trees		
588	538	0	50	Northern Hardwood	50	
620	567		53	Total Forested Acres	50	3
	91%		9%	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)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

**Baraga Mgt. Unit**  
**Fred Hansen : Examiner**

**Compartment: 39**  
**Year of Entry: 2020**

5	Unavailable	3L: Other wildlife concerns	3	Unspecified	Unspecified	Unspecified	Unspecified
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**Comments:**



Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.



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Baraga Mgt. Unit

## Report 7 – Forested Stands

Compartment: 39  
Year of Entry: 2020

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	188.1	98	111-140	Ready for selection harvest. Royal Crown and humbug HDWD cut in 2000
2	4115 - Y. Birch, Hemlock NH	Poletimber Well	2.3	99	81-110	Bart creek buffer area Trace of ash, aspen, cedar, hem, spruce
4	4112 - Maple, Beech, Cherry Association	Poletimber Well	19.7	108	111-140	Black bear Creek Buffer
5	4112 - Maple, Beech, Cherry Association	Poletimber Well	152.3	100	81-110	cut in the winter of 2010-2011 as "EFT hdwds"
6	42350 - Upland Hemlock	Poletimber Well	2.6	146	51-80	
7	4130 - Aspen	Sapling Well	18.5	27	Unspecified	
8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	135.8	96	81-110	
9	4130 - Aspen	Sapling Well	3.2	27	Unspecified	cut 1990
10	4112 - Maple, Beech, Cherry Association	Sawtimber Well	61.5	98	111-140	Ready for selection harvest. Royal Crown and humbug HDWD cut in 2000
11	4112 - Maple, Beech, Cherry Association	Sawtimber Well	13.8	98	111-140	Ready for selection harvest. Royal Crown and humbug HDWD cut in 2000
12	4112 - Maple, Beech, Cherry Association	Sawtimber Well	14.3	96	81-110	



Stand	Cover Type	Acres	Managed Site	General Comments:
3	3302 - Low Density Conifer Trees	7.9	No	