

# **Compartment Review Presentation**

**Baraga Forest Management Unit** 

Compartment 11035 Entry Year 2019 Acreage: 1,681

**County Houghton** 

**Management Area: Central Houghton** 

Revision Date: 2017-05-17

Stand Examiner: Fred Hansen

**Legal Description:**Portage Township

T53N, R35W, Sections 24-26, 35-36

## **Identified Planning Goals:**

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

## Soil and topography:

This is a rolling area bisected with streams and drainages. There are some steep slopes and ridges. Most of the area is well drained. Soils are: Munising loamy fine sand, Yalmer sand, Assinins sands, Skanee fine sandy loam, Tawas and Roscommon mucks, Gay muck, Trimountain cobbly fine sand, Paavola gravelly course sandy loam, Kalkaska sand, Keweenaw gravelly loamy sand, Liminga fine sand, and Alcona loamy fine sand.

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

Adjacent ownerships are predominately industrial forest managed for timber production.

## **Unique Natural Features:**

MNFI indicates the potential for osprey, eagle, great blue heron rookery, red-shouldered hawk, goshawk, moose, gray wolf and the potential for wood turtles along drainages.

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

## **Special Management Designations or Considerations:**

#### Watershed and Fisheries Considerations:

There are several streams, Sante River, 13 Mile Creek, and tributaries to the North Branch Otter River.

#### Wildlife Habitat Considerations:

Maintaining a conifer component in hardwood cover types provide habitat for many of the featured species in this compartment. Retaining mast producing and mature wildlife trees will benefit featured species including black bears, northern goshawks, pileated woodpeckers.

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

Compartment 35: Sections 24-26 & 35-36, T53N R35W, Houghton County

No sand/ gravel pits are located in the area. Sand & gravel potential is unknown. The compartment is located on the east side of the Keweenaw Fault (copper-bearing formations are on the west side of the fault). Therefore, metallic mineral potential is considered minimal. There is no known potential for economic oil and gas production in the UP.

#### Vehicle Access:

Access is either from the north on a DNR easement from Globe Mine / M-26, from the southeast though private lands off the Tapiola Road, or from the west though private lands off M-26. A permanent stream crossing is needed across the Santee River in Section 25 near the NW corner. A good internal road system should be developed with timber sales.

### **Survey Needs:**

#### **Recreational Facilities and Opportunities:**

## **Fire Protection:**

This is not a fire prone area, if there were a fire access would be difficult due to not having a bridge over the Santee River.

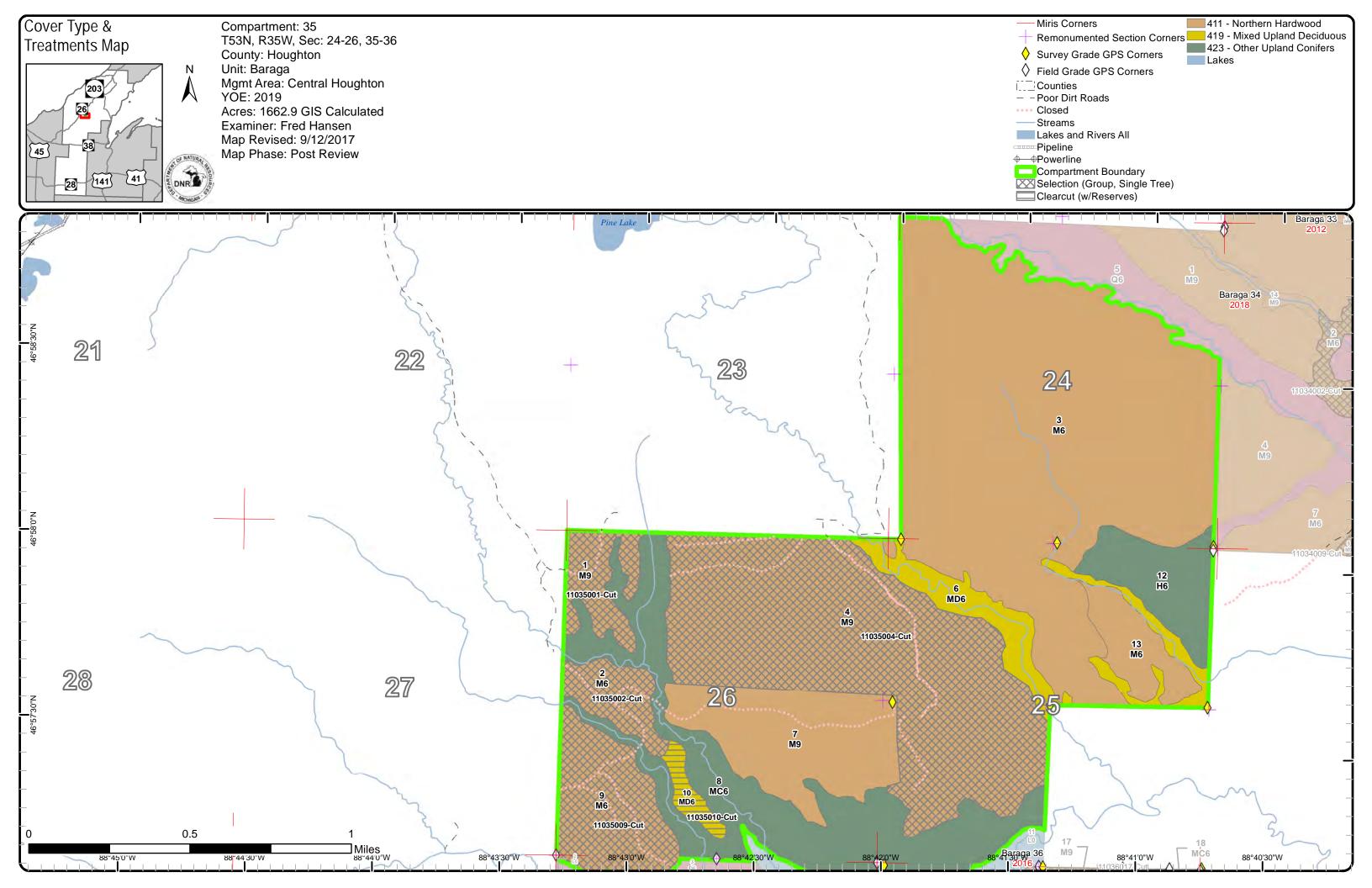
## **Additional Compartment Information:**

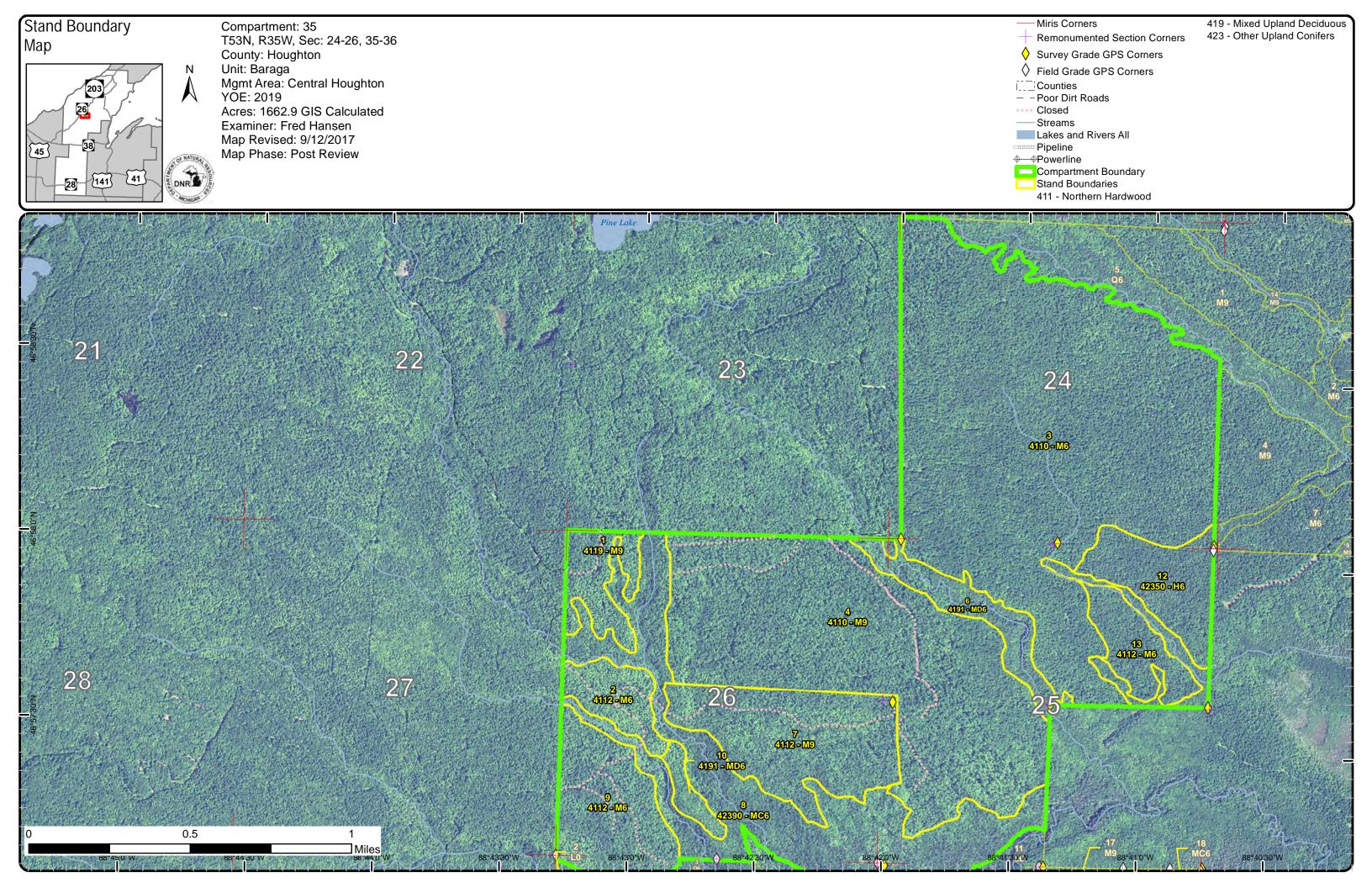
The following reports from the Inventory are attached:

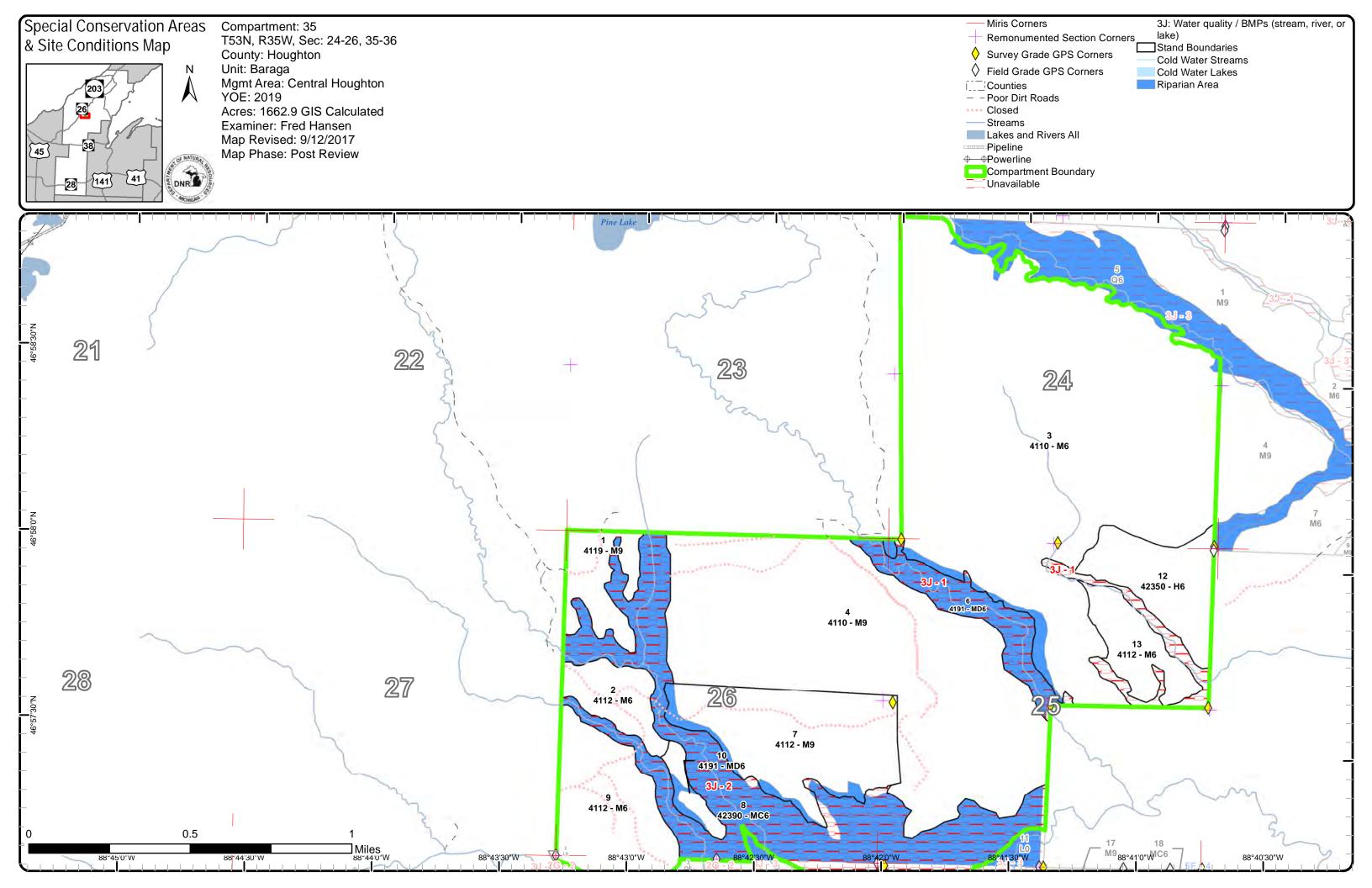
Total Acres by Cover Type and Age Class Cover Type by Harvest Method Proposed Treatments – No Limiting Factors Proposed Treatments – With Limiting Factors Stand Details (Forested and Nonforested) Dedicated and Proposed Special Conservation Areas Site Condition Details

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







# Report 1 – Total Acres by Cover Type and Age Class

Baraga Mgt. Unit

Fred Hansen: Examiner

Compartment 35 Year of Entry 2019



## Age Class

	No.	? / c	3/2		\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	3 / 6	A G	, , , , ,			8 8	8 /0	N / N			S. L.	N. S.	gt Jres		, /
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	61	· 
Mixed Upland Deciduous	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	66	79	Ì
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1295	1295	i
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	219	219	r
Total	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	1641	1654	ı



# **Report 2 - Treatment Summary**

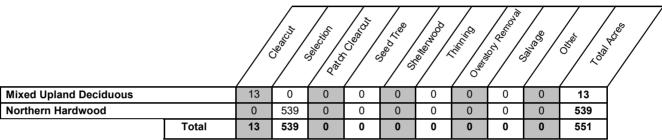
# Baraga Mgt. Unit Year of Entry: 2019

### **Acres of Harvest**

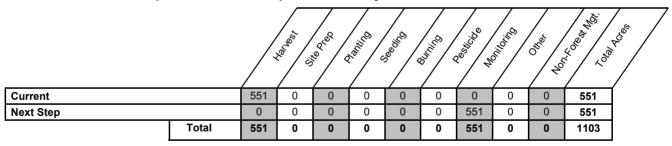
Compartment 35
Total Compartment Acres: 1,681

Commercial Harvest - 551 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

## **Cover Type by Harvest Method**



## **Proposed and Next Step Treatments by Method**



Compartment: 35 Year of Entry: 2019

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	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	\$ <i>'</i>
· · · · · · · · · · · · · · · · · · ·	1 1	11035001-Cut				96		Harvest	- C			Draft Field Boundary	

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

Specs:

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 quidelines set forth in "The Complete Marker". If areas heavy to oak, aspen and/of dieback 1-5 acres are found, seed tree harvest with a residual 10-30 sq ba of oak, reserving hemlock, cedar and pine.

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Regen:

Other Comment:

**Proposed Start Date:** 10/01/2018

Draft Field 11035002-Cut 98 34 0 4112 - Maple, Poletimber 111-Harvest Single Tree 411 - Northern Uneven-Beech. Cherry Well 140 Selection Hardwood Aged Boundary Association

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

Specs:

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". If areas heavy to oak, aspen and/of dieback 1-5 acres are found, seed tree harvest with a residual 10-30 sq ba of oak, reserving hemlock, cedar and pine.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

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

Regen:

<u>Other</u> Comment:

**Proposed Start Date:** 10/01/2018

11035004-Cut 375.3 4110 - Sugar Maple Sawtimber Draft Field 111-Harvest Single Tree 411 - Northern Uneven-Association 140 Selection Hardwood Aged Boundary

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

Specs:

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". If areas heavy to oak, aspen and/of dieback 1-5 acres are found, seed tree harvest with a residual 10-30 sq ba of oak, reserving hemlock, cedar and pine.

Monitoring, Natural Regen (Re-Inventory)

Next Step Treatments:

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

Regen:

Other Comment:

**Proposed Start Date:** 10/01/2018



Year of Entry: 2019	er Type ective	Age Structure	Approval Status	
Comportment: 25	•	tment: 35 Entry: 2019	DNR	

11035009-Cut 91.2

Acres

4112 - Maple, Beech, Cherry Association

Stand

CoverType

98 111-140

BA

Range

Stand

Age

Size

Density

Poletimber

Well

Poletimber

Well

Single Tree Selection

**Treatment** 

Method

411 - Northern Hardwood

**Cover Type** 

Objective

Uneven-Aged

Draft Field Boundary

**Habitat Cut: No** 

**Treatment** 

Name

**Site Condition:** 

Specs:

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". If areas heavy to oak, aspen and/of dieback 1-5 acres are found, seed tree harvest with a residual 10-30 sq ba of oak, reserving hemlock, cedar and pine.

**Treatment** 

Type

Harvest

Next Step

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Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Regen:

Other Comment:

Proposed Start Date:

10/01/2018

11035010-Cut

4191 - Mixed **Upland Deciduous** 

68 111-140

Harvest Clearcut with Retention

4199 - Other Mixed Upland Deciduous

Even-Aged Draft Field

Boundary

**Habitat Cut: No** 

with Conifer **Site Condition:** 

Prescription Cut all trees down to 4.6" DBH except Oak, White Pine and Hemlock.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Regen:

Other Comment:

Proposed Start Date: 10/01/2018

**Total Treatment Acreage Proposed:** 

551.4

# Report 4 - Site Conditions

Compartment: 35

Baraga Mgt. Unit

Fred Hansen: Examiner Year of Entry: 2019

# **Availability for Management**

Total	Acres	Acres Avail	Acres	Do	omina	nt Site Conditions
Acres	Available	With Condition	Not Available		3J	
61	61	0	0	Hemlock		
79	13	0	66	Mixed Upland Deciduous	66	

61	61	0	0	Hemlock	
79	13	0	66	Mixed Upland Deciduous	66
1295	1295	0	0	Northern Hardwood	
219	0	0	219	Upland Conifers	219
1,654	1,368		285	Total Forested Acres	285
	83%		17%	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)	66	2F: Too steep	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
	Comments:						
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	220	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

Mgt. Unit

Compartment: #Type! Year of Entry:

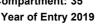


## Report 5 - PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* 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
Comments				

Baraga Mgt. Unit Compartment: 35





# 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.

Conservation Area	Туре	Description	HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	stocked trout populations and those of other coldwayear to year. Coldwater streams in Michigan typical	Such streams are established by Director's action and

s t	Baraga	Baraga Mgt. Unit			– Forested	Stands Compartment: 35 Year of Entry: 2019
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4119 - Mixed Northern Hardwoods	Sawtimber Well	34.2	96	111-140	Dirt Jeep Hdwd cut in 2000. Some dieback. focus on removing large diameter trees with dieback.
2	4112 - Maple, Beech, Cherry Association	Poletimber Well	33.0	98	111-140	Dirt Jeep Hdwd cut in 2000. Some dieback. focus on removing large diameter trees with dieback.
3	4110 - Sugar Maple Association	Poletimber Well	599.3	100	81-110	cut between 2008 and 2010 as part of "Fir Low Hdwds" 11-011- 09-01, ""Gouttoe Hdwds" 11-010-09-01 and "Loafer Hdwds 11- 012-09-01
4	4110 - Sugar Maple Association	Sawtimber Well	375.3	93	111-140	hickey Hdwd and TFC hdwd cut 2000. some dieback along roads.
6	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	66.1	99	111-140	Santi River, Steep slopes, conifer is thicker as you go east
7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	124.8	89	81-110	Globe Hdwd, cut 2010. Hemlock regen creeping into stand along south edge
8	42390 - Mixed Non- Pine Upland Conifers	Poletimber Well	219.3	118	81-110	Creek bottom with steep slopes
9	4112 - Maple, Beech, Cherry Association	Poletimber Well	88.0	98	111-140	Dirt Jeep Hdwd cut 2000. Some dieback. focus on removing larger diameter trees with dieback.
10	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	12.8	68	111-140	Aspen is dying out. North part of stand was thinned in 2009, has lots of die back.

42350 - Upland Hemlock

4112 - Maple, Beech, Cherry Association

12

13

Poletimber

Well

Poletimber Well 60.7

40.2

102

82

81-110

81-110

cut in 2009-2010 as part of "Loafer Hdwds" 11-012-09-01

cut in 2009-2010 as part of "Loafer Hdwds" 11-012-09-01

Mgt. Unit

# Report 8 - Nonforested Stands

Compartment: Year of Entry:



Stand	Cover Type	Acres Site	General Comments:
		#Type!	