



**Baraga Forest Management Unit
Compartment Review Presentation
Compartment #52 Entry Year: 2014
Compartment Acreage: 1351 County: Houghton**

Revision Date: 7/18/2012

Stand Examiner: Jason Mittlestat, Brad Carlson

Legal Description: T52N R36W Sec 25, 36; T51N R36W Sec 1

Identified Planning Goals ('Management Area' or 'RMU', if applicable): Central Houghton

Management Goals: To maintain a healthy; sustainable forest with special consideration to wildlife habitat, fisheries habitat, and recreational needs.

Soil and Topography: The compartment has level terrain with some rolling hills in the southwest. Soils are comprised of Munising loamy fine sand, Skanee sandy loam, Cathro-Gay, Kinross and Dawson mucks.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The surrounding lands are owned by forest industry.

Unique, Natural Features: None listed.

Archeological, Historical, and Cultural Features: None listed.

Special Management Designations or Considerations: None listed.

Watershed and Fisheries Considerations: The compartment contains tributaries to the Bruno Creek, which are trout streams. BMP's should be used along any waterways.

Wildlife Habitat Considerations: Compartment 52 is found in the Central Houghton Management Area on dissected Moraines in Central Houghton County. The dominant forest community is mesic northern forest. This management area represents almost 15% of the western Upper Peninsula State Forest hemlock resource and is one of the few management areas where the species reliably regenerates and recruits. Increasing the structural and compositional diversity of the northern hardwoods with a particular emphasis on increasing the hemlock component is of very important. Compartment 52 has approximately 324 acres of hardwood forest up for treatment in 2014 along with the other large contiguous blocks of un-fragmented mature hardwoods this area provide excellent areas for Northern Goshawks as well as Pileated Woodpecker.

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:

Surface sediments consist of coarse-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Precambrian Jacobsville Sandstone subcrops below the glacial drift and was previously used as a building stone. The nearest gravel pit is located one and one-half miles to the north. Gravel potential appears to be good in the compartment. Abandoned copper mines and crushed basalt piles are located two miles to the northwest and have been leased again recently. The compartment has not been leased before. A limestone outlier is located eight miles to the southeast and the State's Nonmetallic Lease NM-100 is located there. There is no economic oil and gas production in the UP

Vehicle Access: The Lake Gerald Road access this compartment along with the Alston Snowmobile Trail (109). The remaining road access is from logging roads, some of which cross private.

Survey Needs: Survey work will be needed to facilitate timber harvest activities.

Recreational Facilities and Opportunities: Snowmobile Trail 109 passes through part of this compartment.

Fire Protection: This is not a fire prone area.

Additional Compartment Information: None listed.

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

- ◆ **Total Acres by Cover Type and Age Class**
- ◆ **Proposed Treatment Summary**
- ◆ **Proposed Treatments – No Limiting Factors**
- ◆ **Proposed Treatments – With Limiting Factors**
- ◆ **Stand Details (Forested and Nonforested)**
- ◆ **Dedicated and Proposed Special Conservation Areas**

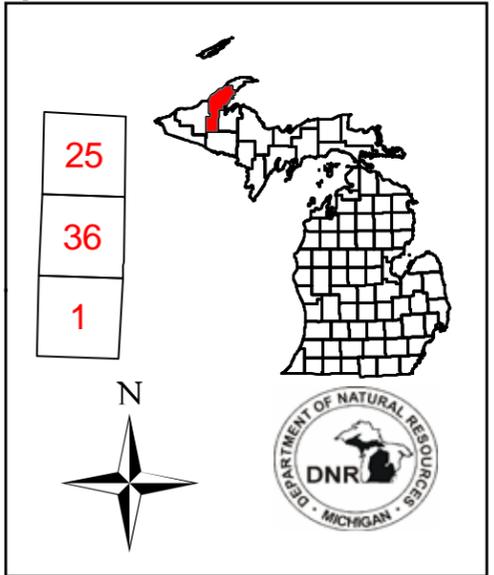
➤ **The following information is displayed, where pertinent, on the attached compartment maps:**

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

Cover Type & Treatment Map

Compartment: 052
 T51N R36W Sec. 1
 T52N R36W Sec. 25, 36
 County: Houghton
 Unit: Baraga
 YOE: 2014
 Acres: 1,351 GIS Calculated
 Examiner: Brad Carlson
 Map Revised: 05/16/2012
 Map Phase: Pre-Review

Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



Legend

- Remonumented Section Corners
- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Streams
- Intermittent Stream
- Snowmobile Trail
- Snowmobile Trails
- State Forest Land
- Lakes and Rivers

Treatments

- Selection (Group, Single Tree)

Forest Stands

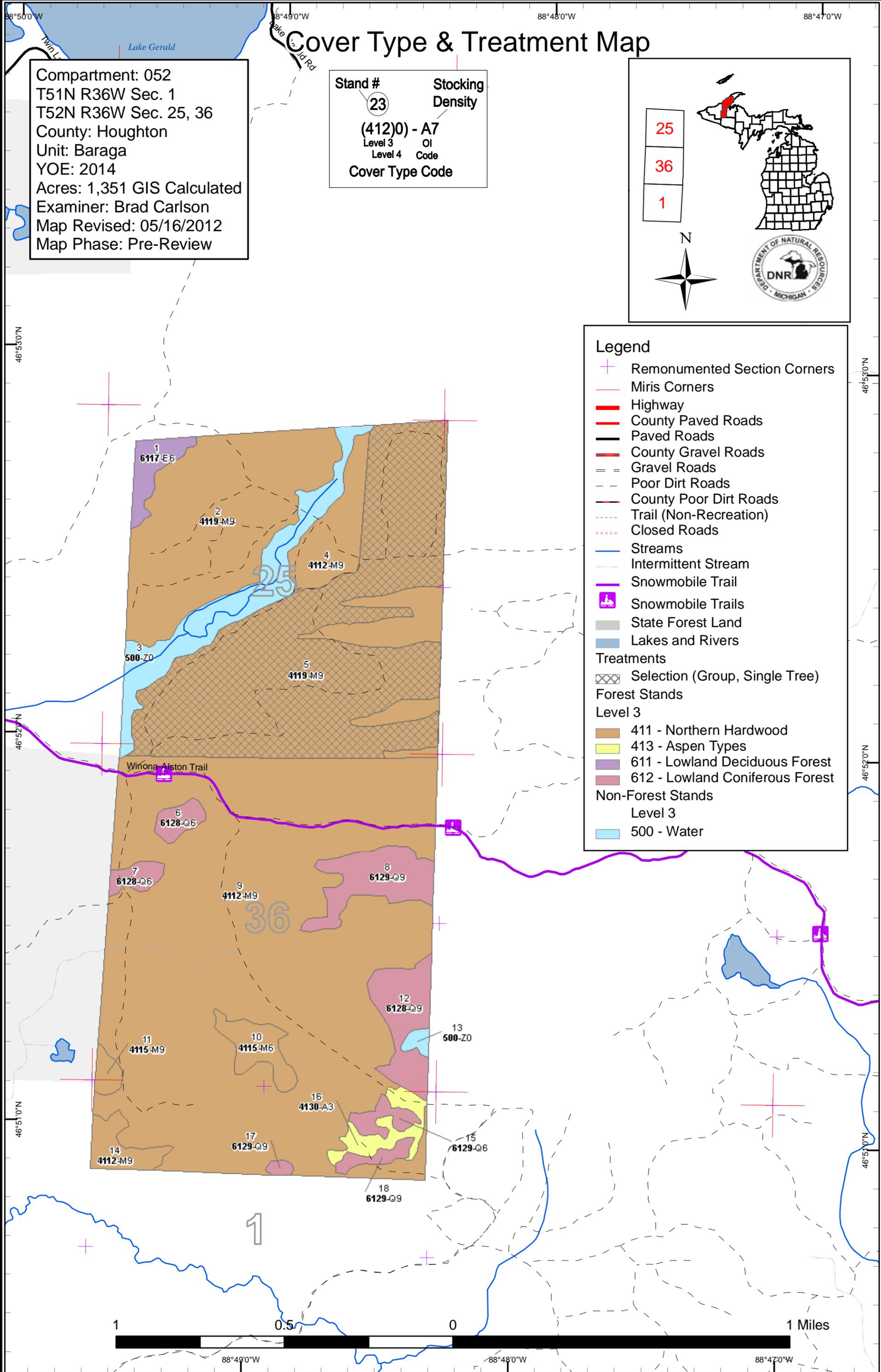
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

- 500 - Water



Stand Boundary Map

Compartment: 052
 T51N R36W Sec. 1
 T52N R36W Sec. 25, 36
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Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

25
 36
 1

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DEPARTMENT OF NATURAL RESOURCES
DNR
MICHIGAN

Legend

- + Remonumented Section Corners
- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Lakes and Rivers
- Streams
- Intermittent Pond
- Snowmobile Trail
- Snowmobile Trails
- Stand Boundaries

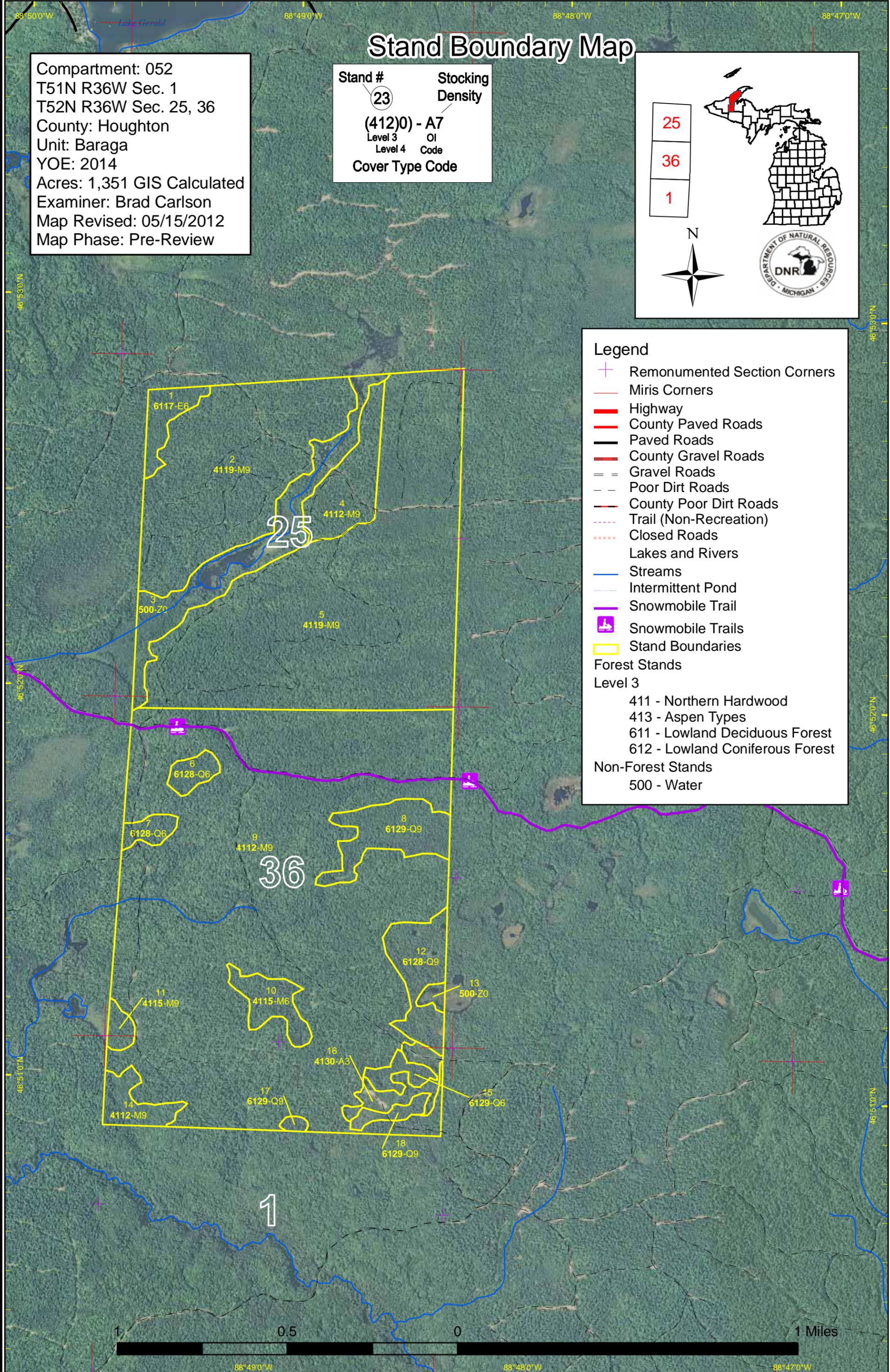
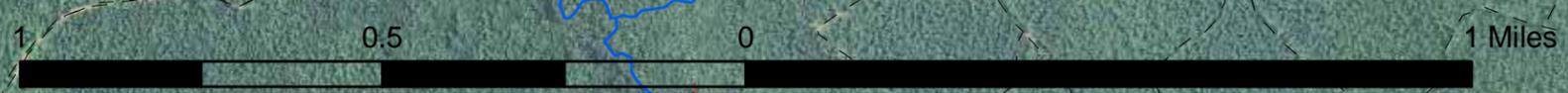
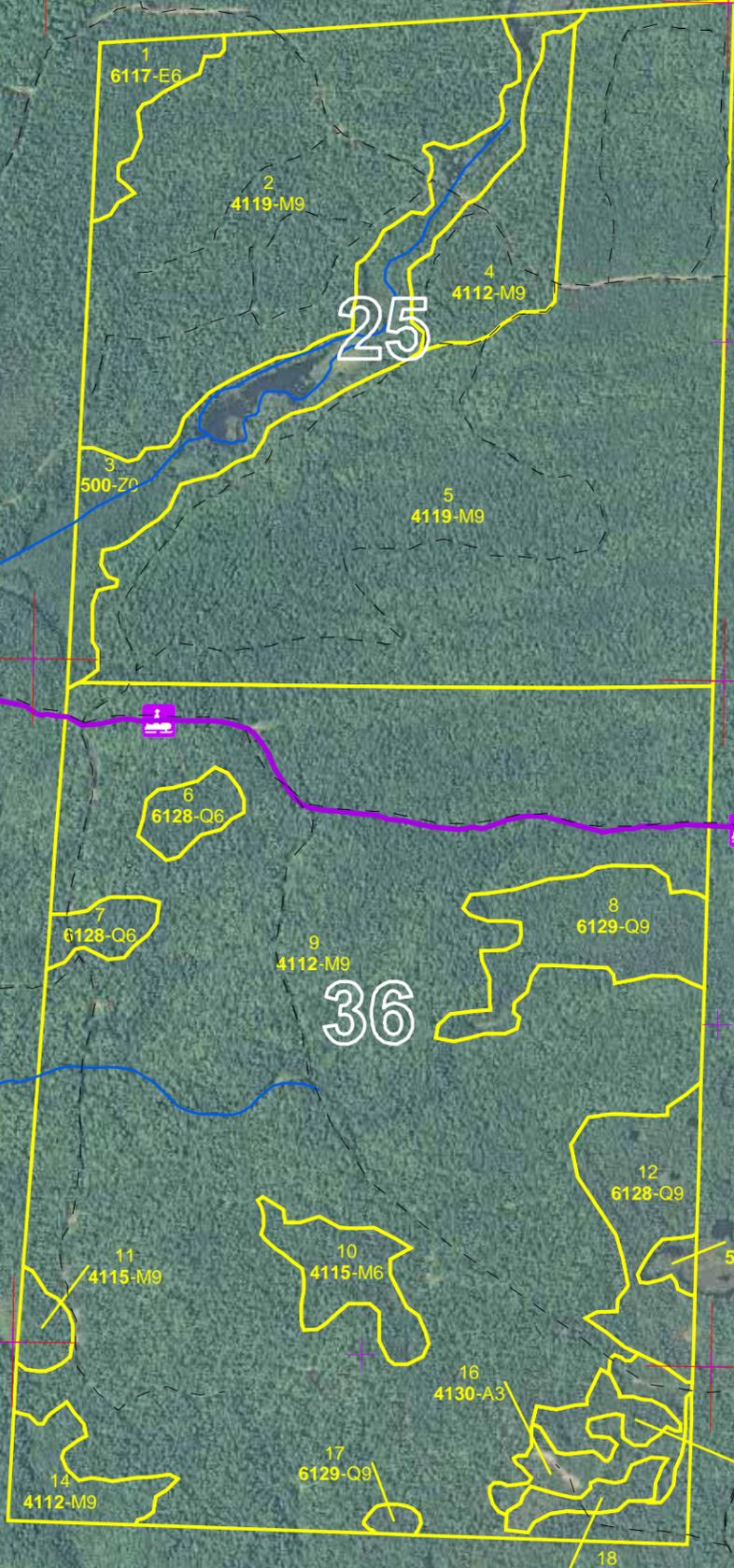
Forest Stands

Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

- 500 - Water



88°50'0"W

88°49'0"W

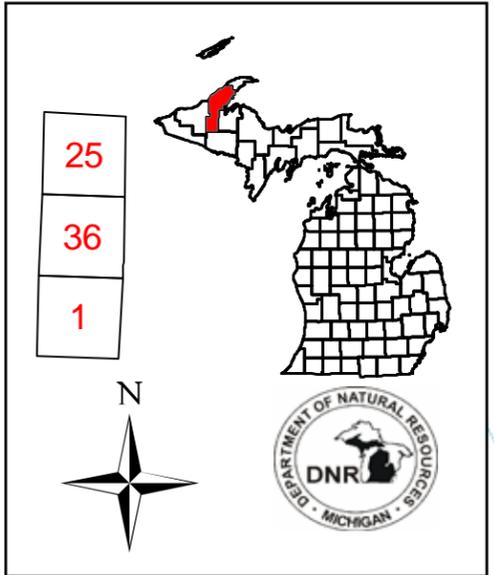
88°48'0"W

88°47'0"W

Dedicated & Proposed Special Conservation Area Map

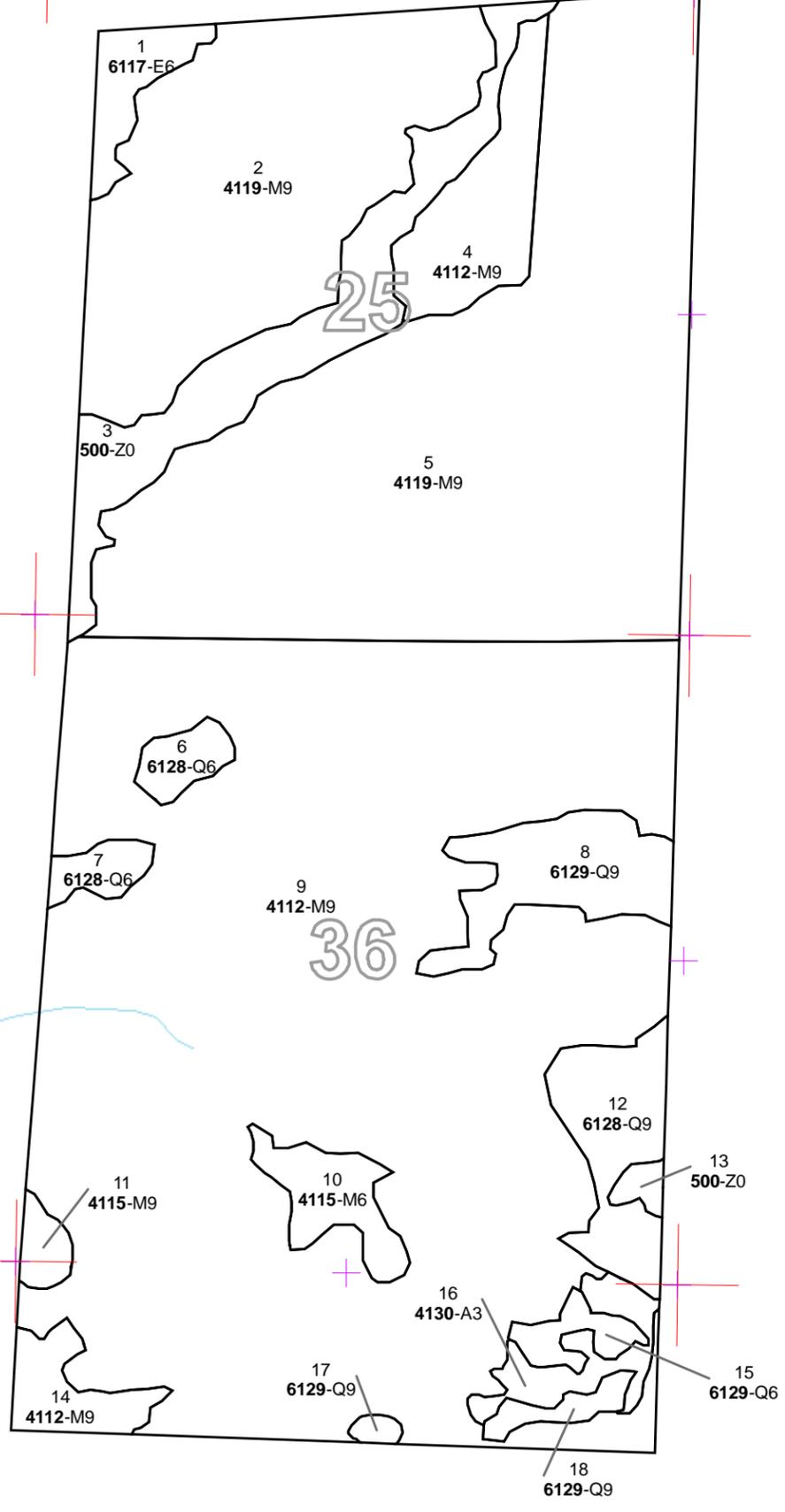
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Stand # **Stocking Density**
 23
(412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



Legend

- ⊕ Remonumented Section Corners
- Miris Corners
- Stand Boundaries
- ▭ Dedicated Special Conservation Areas
- Cold Water Streams
- Forest Stands**
- Level 3**
- 411 - Northern Hardwood
- 413 - Aspen Types
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- 500 - Water



88°50'0"W

88°49'0"W

88°48'0"W

88°47'0"W

46°53'0"N

46°52'0"N

46°51'0"N

46°53'0"N

46°52'0"N

46°51'0"N

Table 1 – Total Acres by Cover Type and Age Class



	Age Class														Total
	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 +	Uneven Age	
Aspen	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	63	30	93
Lowland Deciduous	0	0	0	0	0	0	0	14	0	0	0	0	0	0	14
Northern Hardwood	0	0	0	0	17	0	0	0	0	0	0	0	0	1152	1169
Water	61	0	0	0	0	0	0	0	0	0	0	0	0	0	61
Total	76	0	0	0	17	0	0	0	14	0	0	0	63	1182	1351



Table 2 – Proposed Treatment Summaries

Baraga Mgt. Unit
Year of Entry 2014

Compartment 052
Total Compartment Acres: 1351

Acres by Treatment Type

Commercial Harvest - 287	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Northern Hardwood	0	287	0	0	0	0	0	287
Total	0	287	0	0	0	0	0	287

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
5 11052005-Cut	286.8	4119 - Mixed Northern Hardwoods	High Density Log	99	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal

Prescription Thin stand down to 70-90 square feet of Basal Area using the single tree selection method. Follow marking guidelines as outlined in the
Specs: "Complete Marker". Favor mesic conifers White Pine and Hemlock, cedar, and mass producing black cherry where present. As well as Hard
Mast producing species such as Northern Red Oak. Protect hemlock inclusions from harvest damage while marking to promote hemlock
expansion. Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type.

Other
Comments: There are some low areas in the stand that are mapped out of the treatment shape. Acreage still might vary due to the ground conditions.

Next
Steps:

Proposed
Start Date: 10/01/2013

Total Treatment
Acreage Proposed: 286.8

Table 4 -- Treatments Prescribed with a Limiting Factor



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Error

Prescription Specs:

Other Comment:

Next Steps:

Proposed Start Date: #Error

Limiting Factor and No Treatment Reason

Total Treatment Acreage Proposed: 0

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2014



Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
<u>Prescription Specs:</u>									
<u>Other Comments:</u>									
<u>Next Steps:</u>									
<u>Proposed Start Date:</u> #Error									

Total Treatment Acreage Proposed: 0

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Baraga Mgt. Unit

5 – Forested Stands

Compartment: 052
Year of Entry: 2014

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	13.8	86	111-140	
2	4119 - Mixed Northern Hardwoods	High Density Log	151.1	Uneven Age	81-110	
4	4112 - Maple, Beech, Cherry Association	High Density Log	33.9	Uneven Age	81-110	
5	4119 - Mixed Northern Hardwoods	High Density Log	324.0	Uneven Age	111-140	
6	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	7.9	125	111-140	
7	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	7.1	125	81-110	
8	6129 - Mixed Coniferous Lowland Forest	High Density Log	32.1	125	141-170	
9	4112 - Maple, Beech, Cherry Association	High Density Log	622.9	Uneven Age	81-110	
10	4115 - Y.Birch, Hemlock NH	High Density Pole	16.7	40	51-80	
11	4115 - Y.Birch, Hemlock NH	High Density Log	5.6	Uneven Age	81-110	
12	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	29.9	Uneven Age	111-140	
14	4112 - Maple, Beech, Cherry Association	High Density Log	14.6	Uneven Age	141-170	
15	6129 - Mixed Coniferous Lowland Forest	High Density Pole	7.9	125	111-140	
16	4130 - Aspen	High Density Sapling	14.8	8	1-50	
17	6129 - Mixed Coniferous Lowland Forest	High Density Log	1.9	125	171-200	
18	6129 - Mixed Coniferous Lowland Forest	High Density Log	5.8	125	171-200	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	50 - Water	58.0	No	Low (NonForested)	
13	50 - Water	3.1	No	Low (NonForested)	



7 – 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.

Stand	SCA Type	SCA Name	Acres	Comments



8 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

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.