



**Baraga Forest Management Unit
Compartment Review Presentation
Compartment #42 Entry Year: 2014
Compartment Acreage: 1455 County: Houghton**

Revision Date: 7/18/2012

Stand Examiner: Brad Carlson, Jason Mittlestat

Legal Description: T51N R35W Sec 4, 8, 9.

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 terrain is predominantly level throughout the compartment. The southwest has some steep topography along Bruno Creek. Soils are Munising loamy fine sand, Abbaye loamy fine sand, Kalkaska sand, Alcona loamy fine sand, Liminga fine sand, and Graveraet loam.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Forest industry owns the lands to the west. The other sides of the compartment are bordered by state land.

Unique, Natural Features: None

Archeological, Historical, and Cultural Features: None listed.

Special Management Designations or Considerations: None

Watershed and Fisheries Considerations: Bruno Creek is a trout stream and any activities near it require standard BMP's.

Wildlife Habitat Considerations: Compartment 42 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 42 has approximately 450 acres of hardwood forest up for treatment in 2014 these large contiguous blocks of un-fragmented mature hardwoods 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 and fine-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-half mile to the east. Gravel potential appears to be good in the west half of the compartment. Abandoned copper mines and crushed basalt piles are located six miles to the west and have been leased again recently. The compartment has not been leased before. Limestone outliers are located five miles to the southeast. There is no economic oil and gas production in the UP.

Vehicle Access: This compartment is accessed by department roads starting from the Hazel Swamp or Horoscope Roads or from M26 to the north.

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

Recreational Facilities and Opportunities: The Alston snowmobile trail (109) crosses through part of the compartment depending on where it is routed during timber harvest activities.

Fire Protection: This is not a fire prone area.

Additional Compartment Information: The following stands are proposed to be added to the SCA layer: stands 25 and 27. Both of these stands have rugged topography with steep slopes leading down to Bruno Creek. It is recommended that these stands remain as SCA's. The stands exhibit Type 2 Old Growth characteristics.

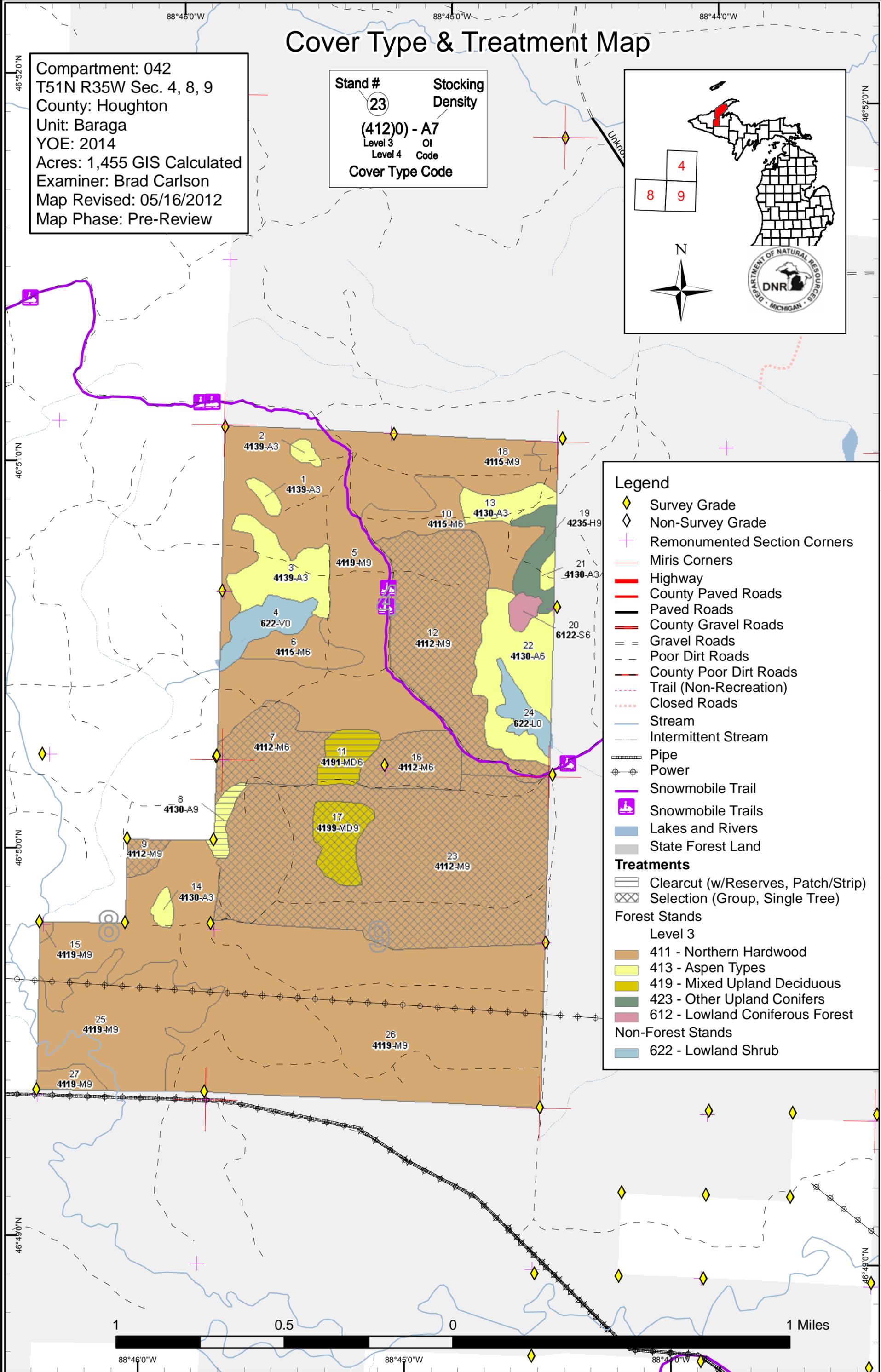
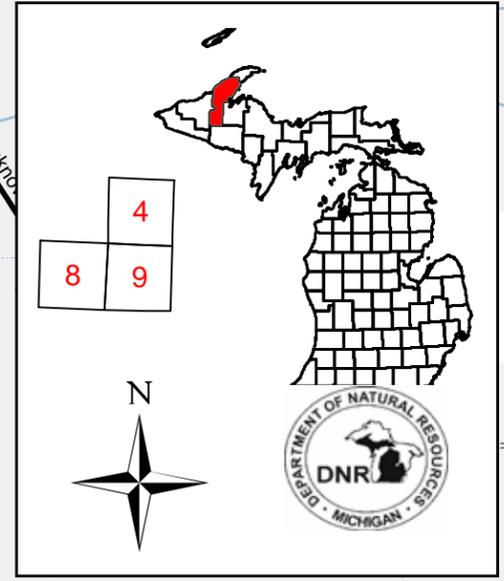
- **The following reports from the Inventory are attached:**
 - ◆ **Total Acres by Cover Type and Age Class**
 - ◆ **Proposed Treatment Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
 - ◆ **Stand Details (Forested and Nonforested)**
 - ◆ **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: 042
 T51N R35W Sec. 4, 8, 9
 County: Houghton
 Unit: Baraga
 YOE: 2014
 Acres: 1,455 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

- ◆ Survey Grade
- ◇ Non-Survey Grade
- ✚ 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
- Stream
- Intermittent Stream
- Pipe
- Power
- Snowmobile Trail
- Snowmobile Trails
- Lakes and Rivers
- State Forest Land

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Selection (Group, Single Tree)

Forest Stands

Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 612 - Lowland Coniferous Forest

Non-Forest Stands

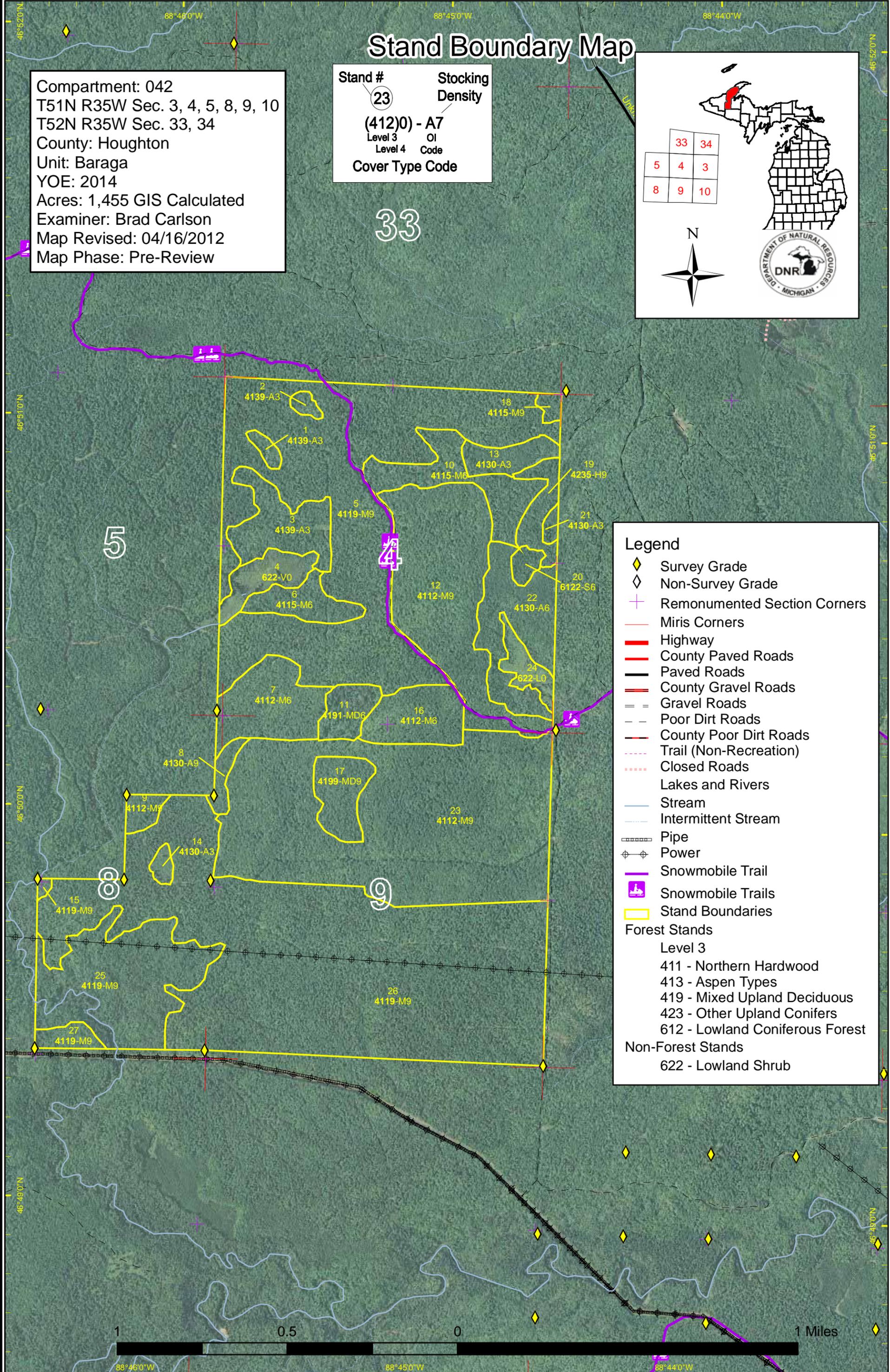
- 622 - Lowland Shrub



Stand Boundary Map

Compartment: 042
 T51N R35W Sec. 3, 4, 5, 8, 9, 10
 T52N R35W Sec. 33, 34
 County: Houghton
 Unit: Baraga
 YOE: 2014
 Acres: 1,455 GIS Calculated
 Examiner: Brad Carlson
 Map Revised: 04/16/2012
 Map Phase: Pre-Review

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



Legend

- ◆ Survey Grade
- ◇ Non-Survey Grade
- + 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
- Stream
- Intermittent Stream
- Pipe
- Power
- Snowmobile Trail
- Snowmobile Trails
- Stand Boundaries

Forest Stands

- Level 3
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 612 - Lowland Coniferous Forest

Non-Forest Stands

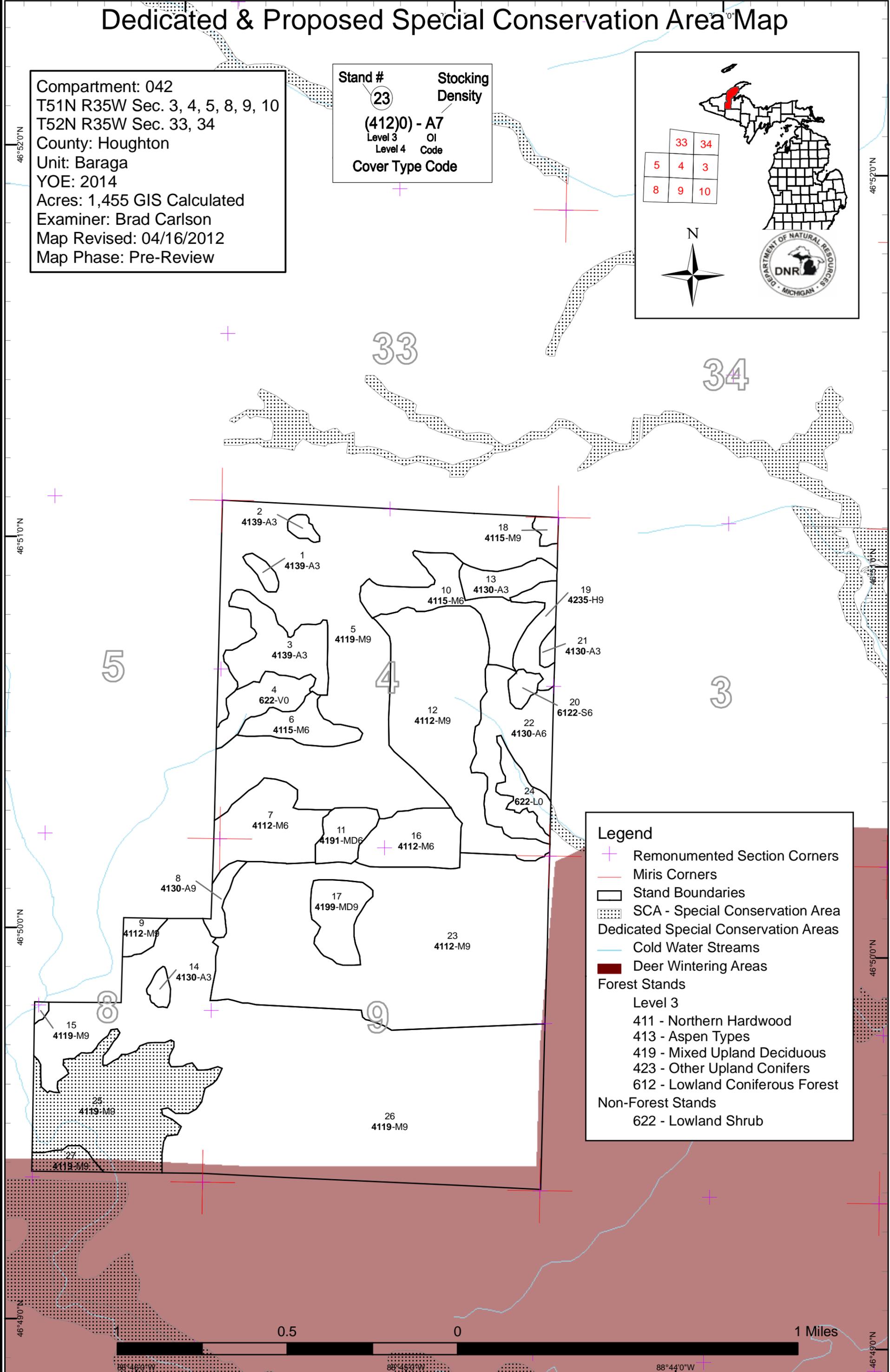
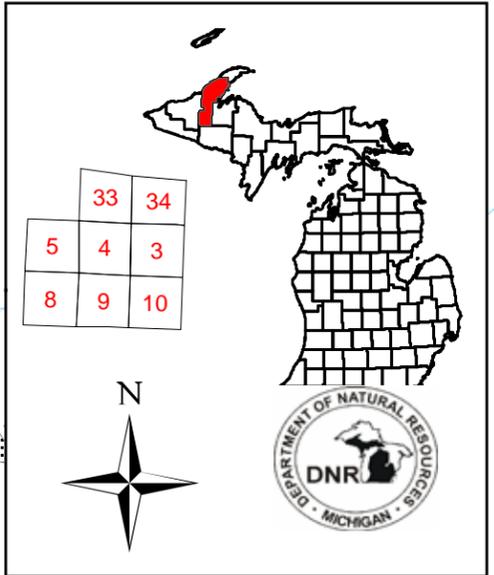
- 622 - Lowland Shrub



Dedicated & Proposed Special Conservation Area Map

Compartment: 042
 T51N R35W Sec. 3, 4, 5, 8, 9, 10
 T52N R35W Sec. 33, 34
 County: Houghton
 Unit: Baraga
 YOE: 2014
 Acres: 1,455 GIS Calculated
 Examiner: Brad Carlson
 Map Revised: 04/16/2012
 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
- ▭ Stand Boundaries
- ▨ SCA - Special Conservation Area
- ▨ Dedicated Special Conservation Areas
- Cold Water Streams
- Deer Wintering Areas
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- 622 - Lowland Shrub



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	4	17	0	47	0	0	0	0	7	0	0	0	0	39	114
Bog	18	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	14	14
Lowland Shrub	11	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	5	0	0	0	0	0	5
Mixed Upland Deciduous	0	0	0	0	14	0	0	0	0	0	0	0	0	21	35
Northern Hardwood	0	0	0	0	0	0	0	0	89	0	0	0	0	1170	1258
Total	33	17	0	47	14	0	0	0	100	0	0	0	0	1244	1455



Table 2 – Proposed Treatment Summaries

Baraga Mgt. Unit
Year of Entry 2014

Compartment 042
Total Compartment Acres: 1455

Acres by Treatment Type

Commercial Harvest - 482	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
Aspen		7	0	0	0	0	0	7
Mixed Upland Deciduous		14	21	0	0	0	0	35
Northern Hardwood		0	441	0	0	0	0	441
Total		21	461	0	0	0	0	482



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
7	11042007-Cut	39.8	4112 - Maple, Beech, Cherry Association	High Density Pole	74	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<p><u>Prescription</u> 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.</p> <p><u>Specs:</u></p> <p><u>Other</u> Acreage may be reduced if small pocket of low BA is excluded in the north central part of the stand. This area was probably heavy to aspen last time it was harvested.</p> <p><u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u></p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2013</p>										
8	11042008-Cut	6.8	4130 - Aspen	High Density Log	89	111-140	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Harvest all species down to 2 inches DBH except red oak, hemlock, white pine and cedar if present. Retention for this stand will be greater than 3% and will consist of Oak, Hemlock and Cedar.</p> <p><u>Specs:</u></p> <p><u>Other</u> Acreage may vary depending on where the aspen/hardwood edge is determined to be. Most of the aspen stand is on a hillside. Leave tree mark aspen 15+" at a rate of 1-3 per acre if present.</p> <p><u>Comments:</u></p> <p><u>Next</u> Regeneration check within 4 years of harvest completion.</p> <p><u>Steps:</u></p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2013</p>										
11	11042011-Cut	14.2	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	48	1-50	Harvest	Clearcut	31021 - Cool Season Grass	Cmpt. Review Proposal
<p><u>Prescription</u> Harvest all species down to 1 inch DBH regardless of merchantability.</p> <p><u>Specs:</u></p> <p><u>Other</u> --Brad Carlson : 05/08/2012 comments: I don't seem to have access to the IfMap, so if you could forward something that would be much appreciated. Thanks for the additional information! I think staying a tree length away from all the sites will be fine (both stands 23 and 11). Jessica</p> <p>Staff may need to identify areas where equipment should be prohibited to preserve the integrity of old foundations, wells, e.i....</p> <p><u>Next</u> WLD should monitor stand annually and brush encroaching vegetation as needed. Work the ground as needed.</p> <p><u>Steps:</u></p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2013</p>										
12	11042012-Cut	106.6	4112 - Maple, Beech, Cherry Association	High Density Log	90	141-170	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<p><u>Prescription</u> 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.</p> <p><u>Specs:</u></p> <p><u>Other</u> East edge of harvest area may vary due to wet areas, areas with low residual BA and high % of aspen regeneration.</p> <p><u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u></p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2013</p>										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
16	11042016-Cut	28.9	4112 - Maple, Beech, Cherry Association	High Density Pole	74	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<p><u>Prescription</u> 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.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u></p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2013</p>										
17	11042017-Cut	20.8	4199 - Other Mixed Upland Deciduous	High Density Log	91	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<p><u>Prescription</u> Selectively thin hardwoods to 70-90 sqft of BA, lower BA's are acceptable in areas with high aspen BA's. 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. Retain some 20+" aspen.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u> Area may have been pastured when homestead to the north was active, report any finds to SHPO.</p> <p><u>Next</u> <u>Steps:</u></p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2013</p>										
23	11042023-Cut	258.6	4112 - Maple, Beech, Cherry Association	High Density Log	91	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<p><u>Prescription</u> 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.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u> --Brad Carlson : 05/08/2012 comments: I don't seem to have access to the IfMap, so if you could forward something that would be much appreciated. Thanks for the additional information! I think staying a tree length away from all the sites will be fine (both stands 23 and 11).</p> <p>Jessica</p> <p>Acreage may be reduced due to archeological reasons. Awaiting guidance from SHPO regarding the old "Audio Homestead".</p> <p><u>Next</u> <u>Steps:</u></p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2013</p>										

**Total Treatment
Acreage Proposed: 475.7**

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
9 11042009-Cut	6.7	4112 - Maple, Beech, Cherry Association	High Density Log	92	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal

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.

Specs:

Other Access will be across private land from the north.

Comment:

Next Steps:

Proposed

Start Date: 10/01/2013

Limiting Factor and No Treatment Reason

2E: Road needed

Prescribe with a treatment, but factor limit due to access. There may be a road coming in from the north but its condition is questionable.

Total Treatment Acreage Proposed: 6.7

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
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Prescription
Specs:

Other
Comments:

Next
Steps:

Proposed
Start Date: #Error

**Total Treatment
Acreage Proposed: 0**



Stand	Baraga Mgt. Unit		5 – Forested Stands			Compartment: 042 Year of Entry: 2014	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
1	4139 - Aspen, Mixed Deciduous	High Density Sapling	3.7	Uneven Age	1-50	Selectively harvested 2 rotations ago as part of "Frost Aspen" (11-005-94-01). Aspen was removed and most of the hardwood was left, some of it was damaged. Could go back and harvest some of the hardwood in 2-3 rotations.	
2	4139 - Aspen, Mixed Deciduous	High Density Sapling	3.1	Uneven Age	1-50	Selectively harvested 2 rotations ago as part of "Frost Aspen" (11-005-94-01). Aspen was removed and most of the hardwood was left, some of it was damaged. Could go back and harvest some of the hardwood in 2-3 rotations.	
3	4139 - Aspen, Mixed Deciduous	High Density Sapling	32.5	Uneven Age	1-50	Selectively harvested 2 rotations ago as part of "Frost Aspen" (11-005-94-01). Aspen was removed and most of the hardwood was left, some of it was damaged. Could go back and harvest some of the hardwood in 2-3 rotations.	
5	4119 - Mixed Northern Hardwoods	High Density Log	259.7	Uneven Age	81-110	Selectively harvested last rotation as "Lake Gerald Road South"	
6	4115 - Y.Birch, Hemlock NH	High Density Pole	17.9	Uneven Age	1-50	Stand was partially selection harvested last rotation with "Lake Gerald Road South". Basal areas are low enough that it will be excluded from the sale area next rotation.	
7	4112 - Maple, Beech, Cherry Association	High Density Pole	39.8	Uneven Age	111-140	Selectively harvested 2 rotations ago as part of "Autio Hdwds" 11-010-94-01. Small area of low BA 60-80 in the Northern lobe of stand, probably was heavy to aspen.	
8	4130 - Aspen	High Density Log	6.8	89	111-140		
9	4112 - Maple, Beech, Cherry Association	High Density Log	6.7	Uneven Age	111-140		
10	4115 - Y.Birch, Hemlock NH	High Density Pole	35.8	Uneven Age	51-80	Selectively harvested 2 rotations ago with "Shack Aspen" (11-004-94-01). Aspen was removed. Probably 20 years before it will be ready.	
11	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	14.2	48	1-50		
12	4112 - Maple, Beech, Cherry Association	High Density Log	106.6	Uneven Age	141-170	Selectively harvested 3 rotations ago with "At Last Hardwood" (11-009-84-01). East edge of treatment area may vary AOI shape due to wet areas and areas of thick aspen regeneration. May need to exclude drainage in the middle of stand.	
13	4130 - Aspen	High Density Sapling	14.2	17		Final Harvested 2 rotations ago with "Shack Aspen" (11-004-94-01). Average height is 35 ft.	
14	4130 - Aspen	High Density Sapling	3.7	7		Final harvested last rotation with "Overlook Hdwd" (11-014-04-01)	
15	4119 - Mixed Northern Hardwoods	High Density Log	1.3	Uneven Age	81-110	Stand is situated on a steep slope down to a tributary of Bruno Creek.	

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Baraga Mgt. Unit

5 – Forested Stands

Compartment: 042
Year of Entry: 2014

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	4112 - Maple, Beech, Cherry Association	High Density Pole	28.9	Uneven Age	111-140	Selectively harvested 2 rotations ago with "Autio Hardwood" (11-010-94-01).
17	4199 - Other Mixed Upland Deciduous	High Density Log	20.8	Uneven Age	111-140	Stand was previously typed as aspen but is converting over to hardwood, Aspen is in very poor condition.
18	4115 - Y.Birch, Hemlock NH	High Density Log	3.3	Uneven Age	81-110	Selectively harvested 2 rotations ago with "Shack Aspen" (11-004-94-01). Aspen was removed. Prescribe next rotation with adjacent hardwood stand.
19	42350 - Upland Hemlock	High Density Log	14.4	Uneven Age	141-170	Wet drainage through the middle. Some very old stumps in the stand.
20	6122 - Black Spruce	High Density Pole	4.9	85	111-140	Pot hole S6 stand with a thick hemlock perimeter.
21	4130 - Aspen	High Density Sapling	2.6	17		Final harvested 2 rotations ago with "Shack Aspen" (11-004-94-01).
22	4130 - Aspen	High Density Pole	47.4	32	51-80	
23	4112 - Maple, Beech, Cherry Association	High Density Log	258.6	Uneven Age	111-140	Selection harvested 3 rotations ago. 11-011-85-01.
25	4119 - Mixed Northern Hardwoods	High Density Log	88.6	86	111-140	Stand has some steep slopes down to Bruno Creek.
26	4119 - Mixed Northern Hardwoods	High Density Log	403.3	Uneven Age	81-110	Selection Harvested as two sales last rotation. The west half was "Overlook Hardwoods" (11-014-04-01) and the east half was "Too Late Hardwoods" (11-013-04-01).
27	4119 - Mixed Northern Hardwoods	High Density Log	7.7	Uneven Age	111-140	Stand has some steep slopes down to Bruno Creek.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
4	6225 - Bog	17.9	No	Unspecified	
24	6229 - Mixed lowland shrub	11.2	No	Unspecified	



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
25	Unique Site - SCA	11042025	88.6	Stand was previously coded "Stand Condition 8 - Potential Old Growth". Due to its unique rugged topography with steep slopes leading down to Bruno Creek it is recommended that this stand remain as an SCA - Type 2 Old Growth.
27	Unique Site - SCA	11042027	7.7	Stand was previously coded "Stand Condition 8 - Potential Old Growth". Due to its unique rugged topography with steep slopes leading down to Bruno Creek it is recommended that this stand remain as an SCA - Type 2 Old Growth.



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.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.