



**Baraga Forest Management Unit  
Compartment Review Presentation  
Compartment #1      Entry Year: 2012  
Compartment Acreage: 1,634 County: Baraga**

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**Revision Date:** 7/14/2010

**Stand Examiner:** Brad S. Carlson

**Legal Description:** T52N, R30W - Section 6.  
T52N, R31W - Sections 1, 3 and 4.  
T53N, R30W - Sections 30 and 31.  
T53N, R31W - Sections 25, 35 and 36.

**RMU (if applicable):**

**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 mostly level to rolling with distinct benches dropping to the lakeshore. The upland soils are Skanee loamy sands; Munising, Zeba and Assinins sands and loams. The lowlands are Carbondale and Tacoosh mucks and Gay mucky fine sandy loam.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The lake shore is in small private ownership. The remaining interior lands are owned by forest industry and by a private game farm. Baraga County owns the tip of Point Abbaye.

**Unique, Natural Features:** The shoreline of Lake Superior

**Archeological, Historical, and Cultural Features:** None identified.

**Special Management Designations or Considerations:** None identified

**Watershed and Fisheries Considerations:** The compartment is bounded on the north by Lake Superior and on the south by Huron Bay.

**Wildlife Habitat Considerations:** This compartment provides valuable wildlife habitat to grouse, deer, bear, furbearers, woodland raptors and neo tropical migrant song birds. This compartment is entirely within the Point Abbaye Deer Yarding complex. This yard is critically important to wintering deer from North eastern Baraga County. Maintenance and expansion of long lived conifer species such as eastern hemlock,

northern white cedar, and white pine are of primary importance. Silvicultural practices which promote thermal cover habitat should be emphasized here. Maintenance of interior wildlife movement corridors particularly along riparian influence zones as well as along the Great Lakes shoreline is a wildlife emphasis. Improvement of within stand structural and species composition of hardwood associations through promotion of conifer species such as eastern hemlock is a wildlife management emphasis. Maintenance of aspen acreage within this compartment for early forest wildlife species is important.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of coarse textured glacial till, with an ancient shoreline in this area. The glacial Drift thickness varies between 10 and 50 feet. The Precambrian Jacobsville Sandstone subcrops below the glacial drift. There is not a current economic use for the Jacobsville, but it was used as a building stone in the past. The nearest gravel pit is located six miles to the southeast. There is no economic oil and gas production in the UP. .

**Vehicle Access:** Primary access to all the lands in this compartment are from Point Abbaye Road which is a seasonal county road.

**Survey Needs:** Very little survey work will need to be completed to facilitate the harvest of timber.

**Recreational Facilities and Opportunities:** There are no developed recreational facilities within the compartment. A campground was planned, but not built, on Huron Bay. Baraga County has a parking lot and pit toilets on their land at the tip of Point Abbaye.

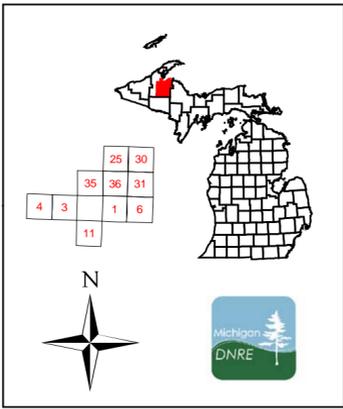
**Fire Protection:** This is not a fire prone area.

**Additional Compartment Information:** None identified.

- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
  - ◆ **Cover Type by Age Class**
  - ◆ **Cover Type by Management Objective**
  - ◆ **Compartment Volume Summary**
  - ◆ **Proposed Treatments – No Limiting Factors**
  - ◆ **Proposed Treatments – With Limiting Factors**
  
- **The following information is displayed, where pertinent, on the attached compartment maps:**
  - ◆ **Base feature information, stand numbers, cover types**
  - ◆ **Proposed treatments**
  - ◆ **Proposed road access system**
  - ◆ **Suggested potential old growth**

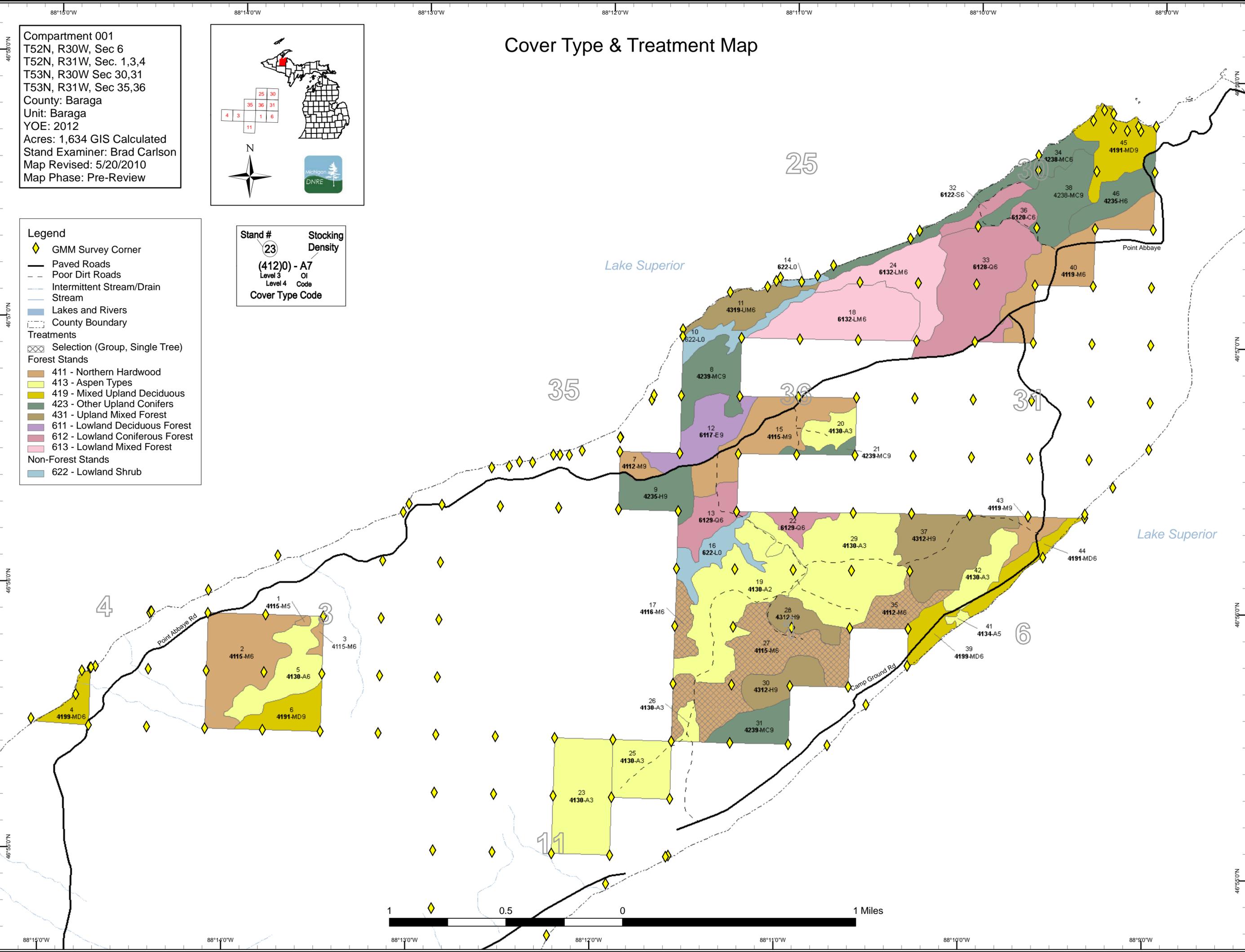
# Cover Type & Treatment Map

Compartment 001  
 T52N, R30W, Sec 6  
 T52N, R31W, Sec. 1,3,4  
 T53N, R30W Sec 30,31  
 T53N, R31W, Sec 35,36  
 County: Baraga  
 Unit: Baraga  
 YOE: 2012  
 Acres: 1,634 GIS Calculated  
 Stand Examiner: Brad Carlson  
 Map Revised: 5/20/2010  
 Map Phase: Pre-Review



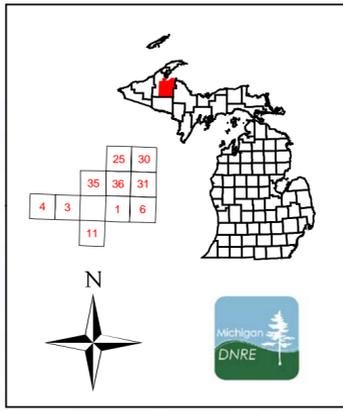
- Legend**
- GMM Survey Corner
  - Paved Roads
  - Poor Dirt Roads
  - Intermittent Stream/Drain
  - Stream
  - Lakes and Rivers
  - County Boundary
  - Treatments**
  - Selection (Group, Single Tree)
  - Forest Stands**
  - 411 - Northern Hardwood
  - 413 - Aspen Types
  - 419 - Mixed Upland Deciduous
  - 423 - Other Upland Conifers
  - 431 - Upland Mixed Forest
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
  - 613 - Lowland Mixed Forest
  - Non-Forest Stands**
  - 622 - Lowland Shrub

**Stand #**  
 23  
**Stocking Density**  
 Level 3  
 Level 4  
**Cover Type Code**  
 A7  
 OI  
 Code



# Stand Boundary Map

Compartment 001  
 T52N, R30W, Sec 6  
 T52N, R31W, Sec. 1,3,4  
 T53N, R30W Sec 30,31  
 T53N, R31W, Sec 35,36  
 County: Baraga  
 Unit: Baraga  
 YOE: 2012  
 Acres: 1,634 GIS Calculated  
 Stand Examiner: Brad Carlson  
 Map Revised: 5/20/2010  
 Map Phase: Pre-Review

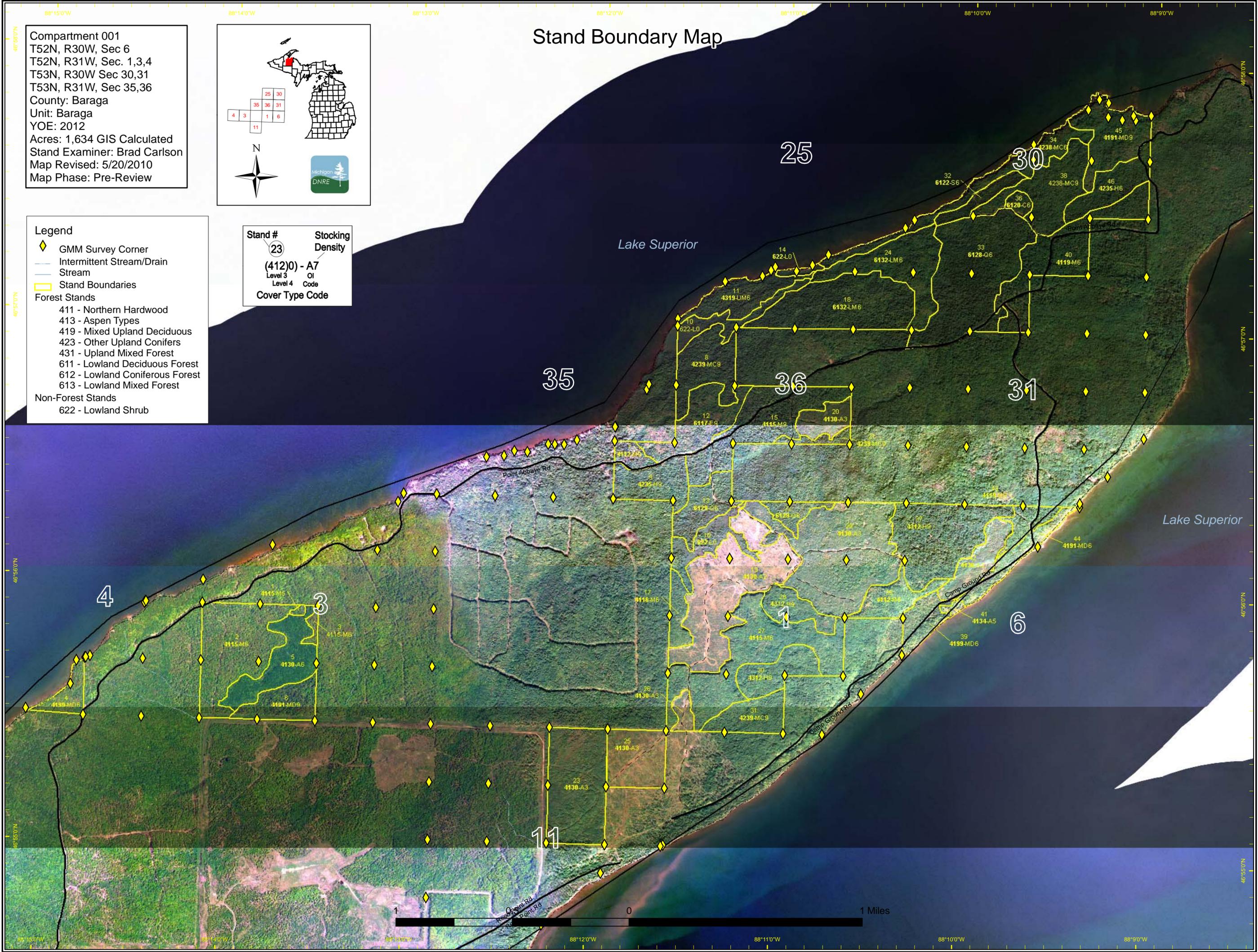


## Legend

- GMM Survey Corner
  - Intermittent Stream/Drain
  - Stream
  - Stand Boundaries
- Forest Stands**
- 411 - Northern Hardwood
  - 413 - Aspen Types
  - 419 - Mixed Upland Deciduous
  - 423 - Other Upland Conifers
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- Non-Forest Stands**
- 622 - Lowland Shrub

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

**Stocking Density**  
 OI  
 Code



88°15'0"W 88°14'0"W 88°13'0"W 88°12'0"W 88°11'0"W 88°10'0"W 88°9'0"W

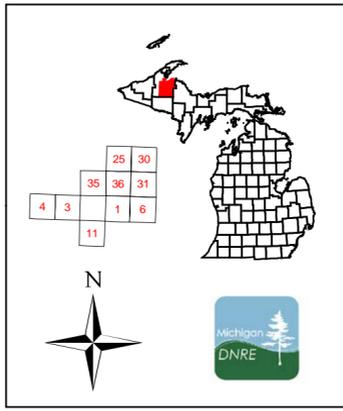
46°58'0"N 46°57'0"N 46°56'0"N 46°55'0"N

46°58'0"N 46°57'0"N 46°56'0"N 46°55'0"N

88°15'0"W 88°14'0"W 88°13'0"W 88°12'0"W 88°11'0"W 88°10'0"W 88°9'0"W

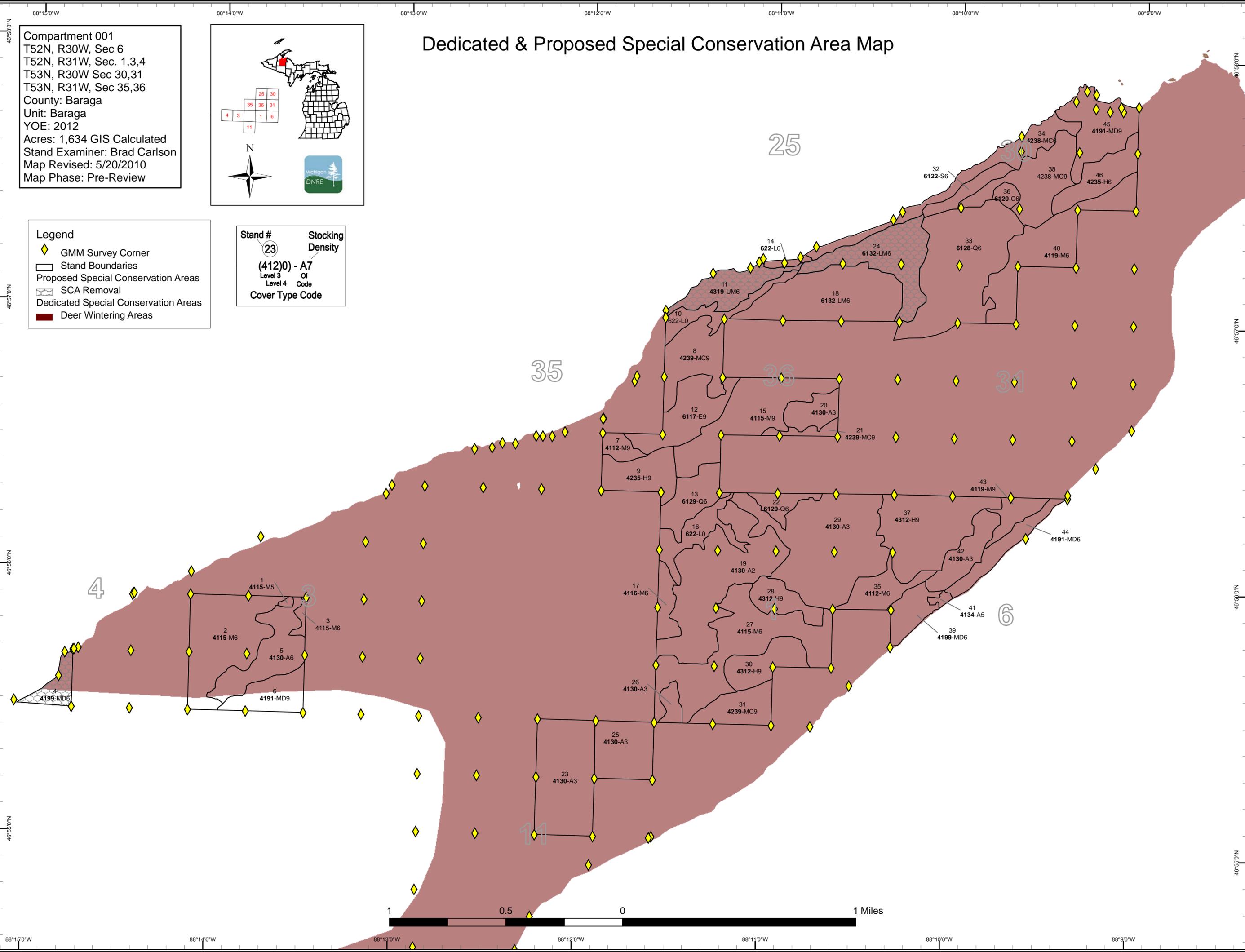
# Dedicated & Proposed Special Conservation Area Map

Compartment 001  
 T52N, R30W, Sec 6  
 T52N, R31W, Sec. 1,3,4  
 T53N, R30W Sec 30,31  
 T53N, R31W, Sec 35,36  
 County: Baraga  
 Unit: Baraga  
 YOE: 2012  
 Acres: 1,634 GIS Calculated  
 Stand Examiner: Brad Carlson  
 Map Revised: 5/20/2010  
 Map Phase: Pre-Review



- Legend**
- GMM Survey Corner
  - Stand Boundaries
  - Proposed Special Conservation Areas
  - SCA Removal
  - Dedicated Special Conservation Areas
  - Deer Wintering Areas

**Stand #**  
 23  
**Stocking Density**  
 Level 3  
 Level 4  
**Cover Type Code**  
 A7  
 OI  
 Code



88°15'0"W 88°14'0"W 88°13'0"W 88°12'0"W 88°11'0"W 88°10'0"W 88°9'0"W

**Table 1 – Total Acres by Cover Type and Age Class**  
(Level 3 Cover Type)



	Age Class														Total	
	Non-Forested	1-9	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 Types	0	157	251	0	45	3	0	0	0	0	0	0	0	0	0	456
Lowland Coniferous Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179	179
Lowland Deciduous Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	43
Lowland Mixed Forest	0	0	0	0	0	0	0	0	57	0	0	0	0	0	83	140
Lowland Shrub	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	133	133
Northern Hardwood	0	0	0	0	1	0	0	80	0	0	0	0	0	0	307	389
Other Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	238	238
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	162	162
<b>Total</b>	<b>50</b>	<b>157</b>	<b>251</b>	<b>0</b>	<b>47</b>	<b>3</b>	<b>0</b>	<b>80</b>	<b>57</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1145</b>	<b>1790</b>



## Table 2 – Proposed Treatment Summaries

**Baraga Mgt. Unit**  
**Year of Entry 2012**

**Compartment 001**  
**Total Compartment Acres: 1790**

### Acres by Treatment Type

Commercial Harvest - 124	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 15	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	138	0	0	0	0	0	138
Total	0	138	0	0	0	0	0	138

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
17 11001017-Cut	14.6	4116 - Mixed N. Hardwood - Aspen	High Density Pole	64	Harvest	Single Tree Selection	Maple, Beech, Cherry Association

Page 1 of 1

Prescription. Mark to 70-90 sq ba. Favor oak, white pine, and hemlock where present. Refer to the "Complete Marker" for further marking guidelines.  
Specs:

Other Comments:

Next Steps: underplant after harvest completion with Hemlock or/and Pine.

27 11001027-Cut	99.6	4115 - Y.Birch, Hemlock NH	High Density Pole	67	Harvest	Single Tree Selection	Y.Birch, Hemlock NH
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Prescription. Mark to 70-90 sq ba. Favor oak, white pine, and hemlock where present. Refer to the "Complete Marker" for further marking guidelines.  
Specs:

Other Comments:

Next Steps: underplant after harvest completion with Hemlock or/and Pine.

35 11001035-Cut	24.0	4112 - Maple, Beech, Cherry Association	High Density Pole	66	Harvest	Single Tree Selection	Maple, Beech, Cherry Association
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Prescription. Mark to 70-90 sq ba. Favor oak, white pine, and hemlock where present. Refer to the "Complete Marker" for further marking guidelines.  
Specs:

Other Comments:

Next Steps: underplant after harvest completion with Hemlock or/and Pine.

**Total Treatment  
Acreage Proposed: 138.3**

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
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Page 1 of 1

Prescription  
Specs:

Other  
Comment:

Next  
Steps:

Limiting Factor and No  
Treatment Reason

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**Total Treatment**  
**Acreage Proposed: 0**

Stand	Baraga Mgt. Unit		5 – Forested Stands			Compartment: 001
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2012
						General Comments:
1	4115 - Y.Birch, Hemlock NH	Medium Density Pole	1.3	32	1-50	Grown over grassy opening
2	4115 - Y.Birch, Hemlock NH	High Density Pole	80.0	61	51-80	Units 1 and 2 of "Pig Pen Pulp" cut in 2004
3	4115 - Y.Birch, Hemlock NH	High Density Pole	3.5	Uneven Age	51-80	part of unit 1 of "Pin Pen Pulp" cut in 2004
4	4199 - Other Mixed Upland Deciduous	High Density Pole	15.1	Uneven Age	51-80	Wet soils. shallow rooted and ground never freezes.
5	4130 - Aspen	High Density Pole	45.3	32	1-50	Looks like it was a "choppers choice" when it was cut in 1978. This stand has a variable diameter and some aspen are as big as 12". Probably ready in 2022.
6	4191 - Mixed Upland Deciduous with Conifer	High Density Log	28.3	Uneven Age	111-140	Part of "Pig Pen Pulp" cut in 2004.
7	4112 - Maple, Beech, Cherry Association	High Density Log	9.9	Uneven Age	81-110	Unit 4 of "Hot Plate Hdws" cut in 2004
8	42390 - Mixed Non-Pine Upland Conifers	High Density Log	42.9	Uneven Age	171-200	Heavy to cedar poles in the north half of the stand.
9	42350 - Upland Hemlock	High Density Log	33.4	Uneven Age	200+	Leave until next rotation and cut with hdws to the north. Could cut hdwd pockets within stand.
11	4319 - Mixed Upland Forest	High Density Pole	33.0	Uneven Age	81-110	Shallow soils and shallow rooted trees.
12	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	43.2	Uneven Age	111-140	Shallow rooted trees with lots of blowdown.
13	6129 - Mixed Coniferous Lowland Forest	High Density Pole	29.7	Uneven Age	81-110	Wet Ground,
15	4115 - Y.Birch, Hemlock NH	High Density Log	70.5	Uneven Age	81-110	units 3 and 4 of "Hot Plate Hdws" cut in 2004
17	4116 - Mixed N. Hardwood - Aspen	High Density Pole	14.6	Uneven Age	111-140	stand is in transition from Aspen to hdws, May need to take basal area down to 50sqft in some places.
18	6132 - Mixed Lowland Forest with Cedar	High Density Pole	83.1	Uneven Age	141-170	Lots of wet Swails and strips on small diameter hdwd (blowdown or old cutting?).
19	4130 - Aspen	Medium Density	108.8	6		"Abbaye Aspen" units 1, 2 and 3. cut in 2004.
20	4130 - Aspen	High Density Sapling	18.5	11		cut in 1999



S t a n d	Baraga Mgt. Unit		5 – Forested Stands			Compartment: 001
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2012
						General Comments:
21	42390 - Mixed Non-Pine Upland Conifers	High Density Log	7.4	Uneven Age	111-140	Small acreage, transition between A3 and S5.
22	6129 - Mixed Coniferous Lowland Forest	High Density Pole	12.5	Uneven Age	81-110	
23	4130 - Aspen	High Density Sapling	80.0	16		
24	6132 - Mixed Lowland Forest with Cedar	High Density Pole	56.8	74	81-110	Wet ground with shallow soils, was prescribed in the past but was deemed "too wet" to be cut.
25	4130 - Aspen	High Density Sapling	40.1	6		cut in 2004 as part of "Abbaye Aspen" Unit 5.
26	4130 - Aspen	High Density Sapling	8.1	6		cut in 2004 as part of "Abbaye Aspen" unit 4
27	4115 - Y.Birch, Hemlock NH	High Density Pole	99.6	Uneven Age	111-140	
28	4312 - Hemlock, Mixed Deciduous	High Density Log	21.4	Uneven Age	171-200	
29	4130 - Aspen	High Density Sapling	125.7	13		1997 cutting record.
30	4312 - Hemlock, Mixed Deciduous	High Density Log	29.6	Uneven Age	171-200	
31	42390 - Mixed Non-Pine Upland Conifers	High Density Log	28.2	Uneven Age	141-170	Some pockets were cut before and are filled with small diameter Hdws. Several wet drainages throughout.
32	6122 - Black Spruce	High Density Pole	14.1	Uneven Age	51-80	Wet.
33	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	117.2	Uneven Age	111-140	Wet ground with Hemlock knobs.
34	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	42.7	Uneven Age	111-140	stand is adjacent to the Lake Shore and has areas of blowdown.
35	4112 - Maple, Beech, Cherry Association	High Density Pole	24.0	Uneven Age	81-110	
36	6120 - Lowland Cedar	High Density Pole	5.8	Uneven Age	81-110	
37	4312 - Hemlock, Mixed Deciduous	High Density Log	77.7	Uneven Age	111-140	cut in 2004 as part of "Horse Barn Hdws".



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## Baraga Mgt. Unit

## 5 – Forested Stands

Compartment: 001  
Year of Entry: 2012

Inventory Method: IFMAP

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
38	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Log	52.0	Uneven Age	141-170	
39	4199 - Other Mixed Upland Deciduous	High Density Pole	20.6	Uneven Age	51-80	Stand is adjacent to the lakeshore. There are wet and blowdown areas in stand.
40	4119 - Mixed Northern Hardwoods	High Density Pole	70.5	Uneven Age	81-110	cut in 2004 as part of "Hot Plate Hdwds" units 1 and 2.
41	4134 - Aspen, Spruce/Fir	Medium Density Pole	2.5	47	1-50	Grown over "G" type.
42	4130 - Aspen	High Density Sapling	26.8	13		1997 cutting record.
43	4119 - Mixed Northern Hardwoods	High Density Log	14.8	Uneven Age	81-110	cut in 2004 as part of "Horse Barn Hdwds"
44	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	22.5	Uneven Age	81-110	stand is adjacent to the lakeshore, Was M5 last time.
45	4191 - Mixed Upland Deciduous with Conifer	High Density Log	46.6	Uneven Age	111-140	Was E6 last rotation. the east portion of this stand is cuttable, but should wait until the hardwoods to the south are ready before it is prescribed.
46	42350 - Upland Hemlock	High Density Pole	30.9	Uneven Age	141-170	



Stand	Cover Type	Acres	Gen Cmts:
10	6220 - Alder/willow	20.1	
14	6220 - Alder/willow	3.7	Tag Alder
16	6220 - Alder/willow	26.4	

**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.

Inventory Method: IFMAP

Stand	SCA Type	SCA Name	Acres	Comments
4	SCA Removal	11001004	15.1	Previously coded as stand condition 8. Recommendation is to remove this coding.
11	SCA Removal	11001011	33.0	Previously coded as stand condition 8. Recommendation is to remove this coding
24	SCA Removal	11001024	56.8	Previously coded as stand condition 8. Recommendation is to remove this coding



## 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	Great Lakes Islands	Great Lakes Islands provide significant habitat for numerous species, including many rare plants and animals, several of which are endemic or largely restricted to the Great Lakes region. Due to their isolation, islands provide good examples of many Great Lakes-associated natural communities and ecosystems, and thus have potential to provide insights for understanding the consequences of human disturbance on the increasingly fragmented ecosystems of the mainland.
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.
SCA	Potential Old Growth Areas	This category contains stands were identified for a broad range of reasons and were coded in the OI database as stand condition 8 as potential old growth (POG). Approximately 310,000 acres have been identified through the Operations Inventory (OI)/Compartment Review process. For stands in Year of Entry 2008 and forward, potential old growth is managed for the identified objective until it is: 1) vetted through the Biodiversity Conservation Planning Process (BCPP) and given a specific designation and objective (as an ERA, HCVA, or other type of SCA) and is released from the potential old growth designation; or 2) it is released from the potential old growth designation via the Compartment Review process.