



**BARAGA FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT #45 ENTRY YEAR: 2010

Compartment Acreage: 1898 County: Houghton

Revision Date: 10/17/2007

Stand Examiner: Brad S. Carlson

Legal Description: Elm River Township
T51N, R35W, Sections 11, 13 and 14.
T51N, R36W, Section 7.

RMU (if applicable):

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

Soil and Topography: The topography is level to rolling. There are some steep slopes along Beaver Creek. Upland soils are: Munising loamy fine sand, Alcona loamy fine sand, Liminga fine sand, Skanee fine sandy loam, Yalmer sand, Kalkaska sand, AuGres sand, and Waiska gravelly sand. Lowland soils are: Gay mucky sandy loam and Graverat loam.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The majority of the surrounding land is managed for timber purposes by Industry and the State. There are a few isolated parcels of private land in this compartment which are used for both recreational and timber purposes.

Unique, Natural Features (include only non-site specific and non-sensitive information): MNFI recognizes the potential for red-shouldered hawk, northern goshawk, eagle, osprey, great blue heron rookeries, gray wolf, moose and wood turtle (along drainages).

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): none.

Special Management Designations or Considerations: BMP guidelines should be followed around the intermittent streams and Beaver Creek

Watershed and Fisheries Considerations: Erosion is a concern along Beaver Creek. Beaver activity also of concern.

Wildlife Habitat Considerations: Vernal ponds are important for wildlife and should not be disturbed during harvesting operations. Favor mesic conifers; White Pine and Hemlock, as well Northern Red Oak. An earthen dam at the southeastern corner of Pike Lake regulates its water level. The water control structure (drop tube, stoplogs, and outlet tube) was replaced and the upstream side of the dam was reinforced in 2005.

Mineral Resource and Development Concerns and/or Restrictions: none.

Vehicle Access: The Pike Lake Road is a county road that passes through Sections 11, 13 and 14 of this compartment. There are several forest roads in fair to poor condition throughout the compartment.

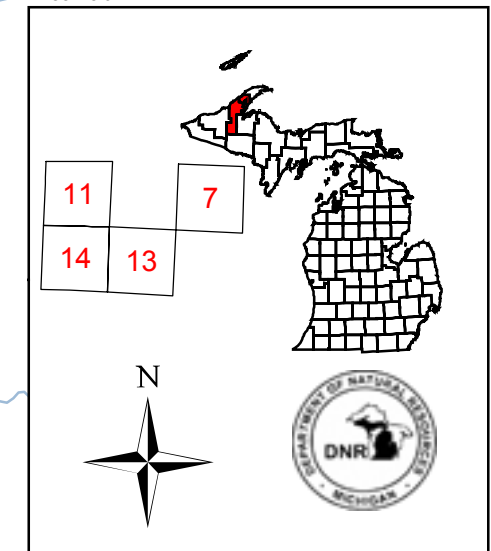
Survey Needs: Some survey work will need to be done for harvest activities.

Recreational Facilities and Opportunities: The area provides excellent opportunities for small game, bear and deer hunting. Pike Lake and Beaver Creek also offer some good fishing opportunities.

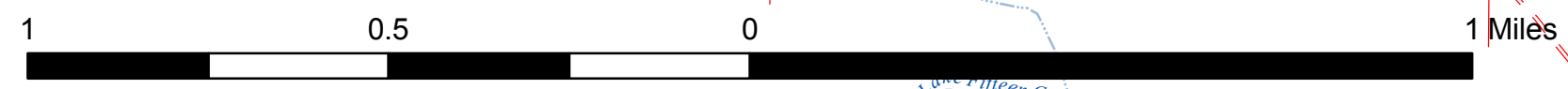
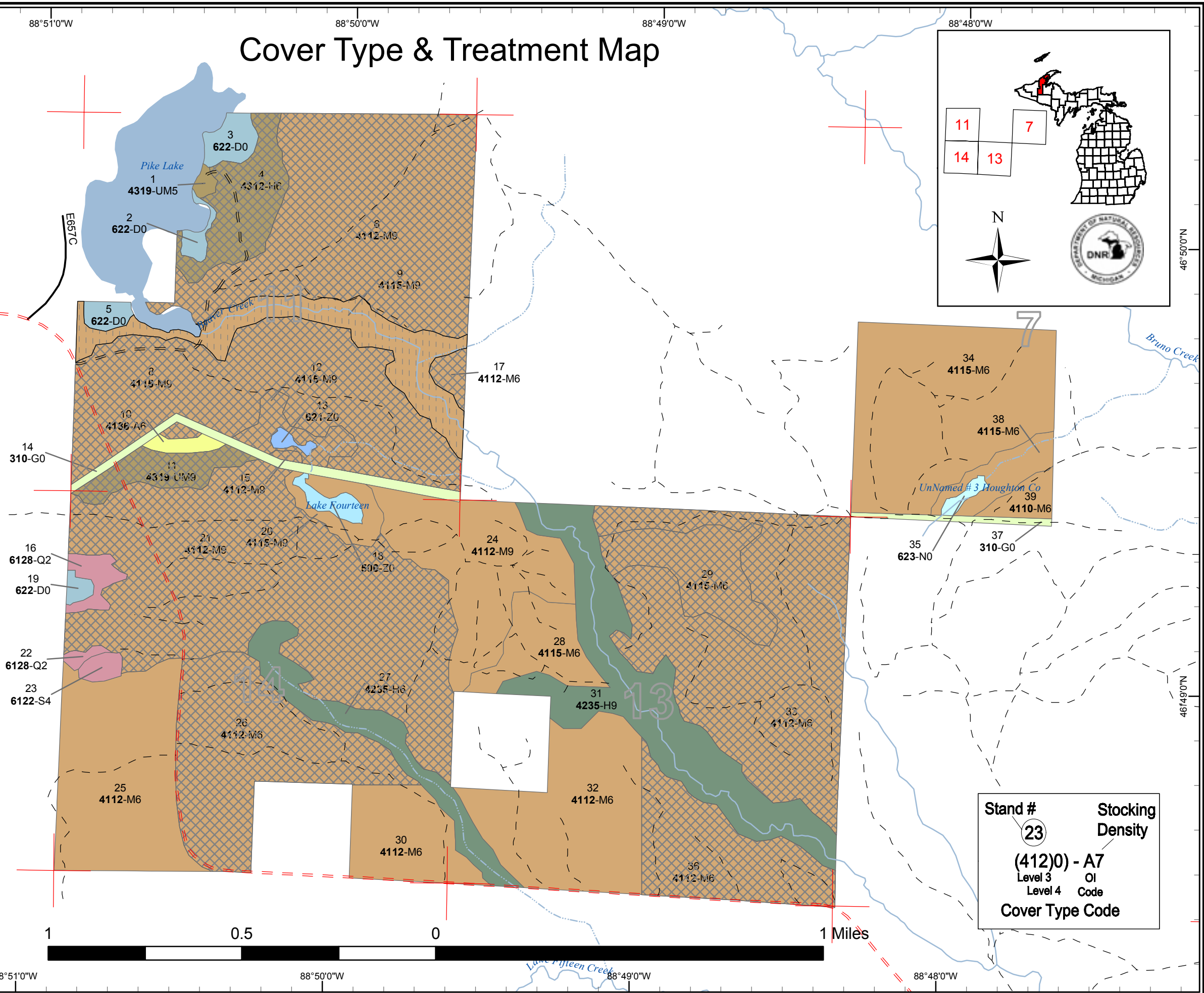
Fire Protection: This compartment has minimal fire activity.

Cover Type & Treatment Map

Compartment 45
 T51N, R36W, Sec. 11, 13, 14
 T51N, R35W, Sec. 7
 County: Houghton
 Unit: Baraga
 YOE: 2010
 Acres: 1,898 GIS Calculated
 Stand Examiner: Brad Carlson
 Map Revised: 8/04/2008
 Map Phase: Pre-review



- Legend**
- Miris Corners
 - Paved Road
 - == County Gravel Road
 - == Gravel Road
 - - - Poor Dirt Road
 - Intermittent Stream/Drain
 - Stream
 - Lakes and Rivers All
- Forest Stands**
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 423 - Other Upland Conifers
 - 430 - Upland Mixed Forest
 - 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- 310 - Herbaceous Openland
 - 500 - Water
 - 621 - Floating Aquatic
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland
- Treatments**
- Selection (Group, Single Tree)
 - Opening Maintenance

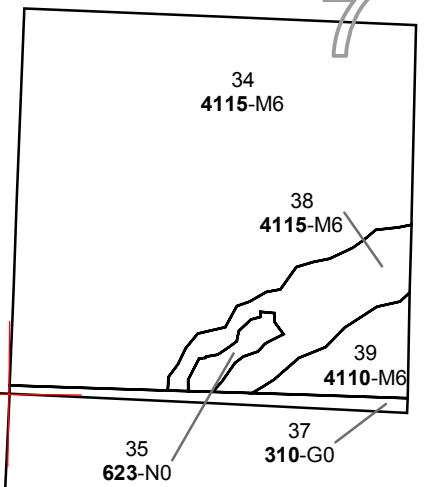
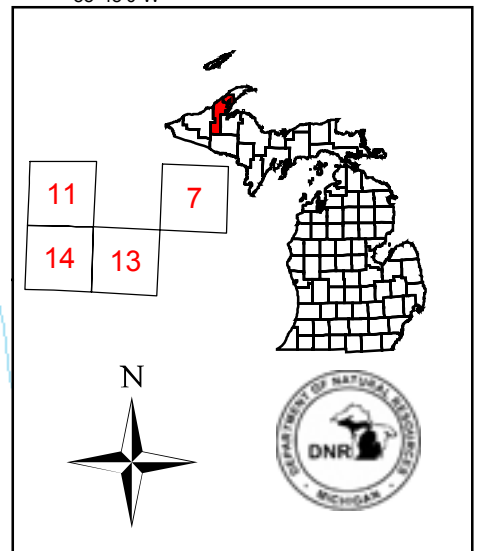
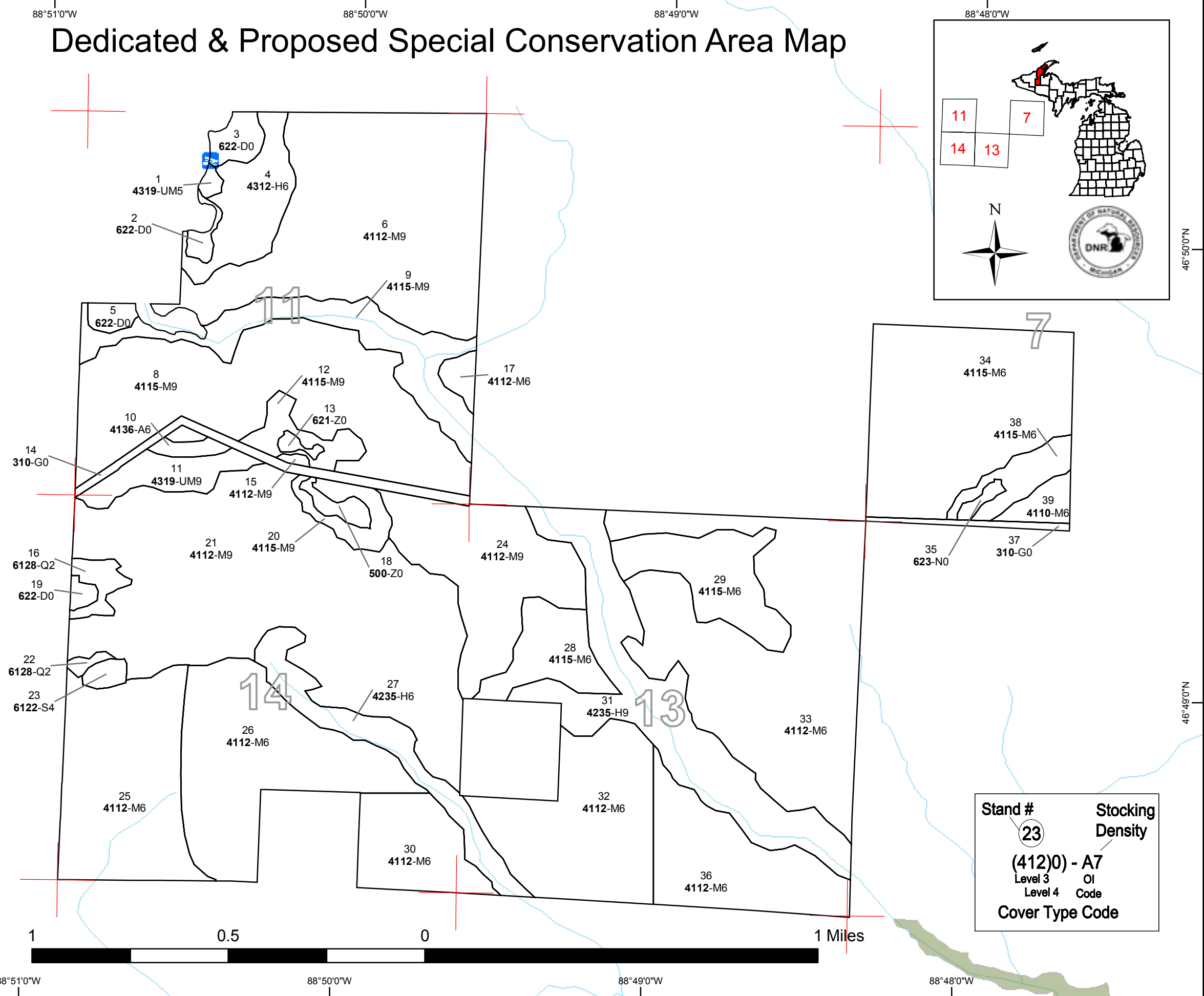


Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

Dedicated & Proposed Special Conservation Area Map

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 T51N, R36W, Sec. 11, 13, 14
 T51N, R35W, Sec. 7
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- Legend**
- Miris Corners
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 - Special Conservation Areas**
 - 🚤 Boat Access Sites
 - 🌊 Cold Water Streams
 - 🌿 Potential Old Growth Stands



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

Baraga Mgt. Unit

Covertypes, Acres, and Age summary
(Level 3 Cover Type)

Compartment 045 Year of Entry 2010

Report Date: 08/04/2008



	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	0	0	0	0	0	0	0	0	0	0	0	0	0	4.6	4.6
Emergent Wetland	2.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.8
Floating Aquatic	2.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.2
Herbaceous Openland	20.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20.7
Lowland Coniferous Forest	0	0	0	0	0	4.3	0	0	0	0	0	0	0	0	10.3	14.6
Lowland Shrub	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21.1
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1623.4	1623.4
Other Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144.9	144.9
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59.4	59.4
Water	5.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.7
Total	52.5	0	0	0	0	4.3	0	0	0	0	0	0	0	0	1842.6	1899.5



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	Concentrated Recreation Area	Facilities that are designed and maintained for routine or heavy recreational use, including State Parks, State Forest campgrounds, motorized and non-motorized trails, trailheads, staging areas and public access sites.
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.

**PROPOSED TREATMENTS
NO LIMITING FACTORS**



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
4 11045004-Cut	36.6	4312 - Hemlock, Mixed Deciduous	High Density Pole	69	Harvest	Single Tree Selection	Hemlock, Mixed Deciduous

Rev Cmnt: Net acreage may be small due to wet areas to be excluded from the sale and adequate buffering along Pike Lake.

Rev Spec: Mark to 70-90 sq ba. Favor oak, white pine, and hemlock where present. Higher BA's acceptable in Hemlock areas and lower BA's acceptable in Aspen areas. Refer to the "Complete Marker" for further marking guidelines.

Next Steps: Check for adequate regeneration within 4 years of harvest completion.

6 11045006-Cut	184.1	4112 - Maple, Beech, Cherry Association	High Density Log	74	Harvest	Single Tree Selection	Maple, Beech, Cherry Association
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Rev Cmnt:

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

Next Steps: check for adequate regeneration within 4 years of harvest completion.

7 11045007-Cut	1.8	4115 - Y.Birch, Hemlock NH	High Density Log	68	Harvest	Single Tree Selection	Y.Birch, Hemlock NH
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Rev Cmnt:

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

Next Steps: check for adequate regeneration within 4 years of harvest completion.

8 11045008-Cut	157.1	4115 - Y.Birch, Hemlock NH	High Density Log	82	Harvest	Single Tree Selection	Y.Birch, Hemlock NH
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Rev Cmnt:

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

Next Steps: check for adequate regeneration within 4 years of harvest completion.

11 11045011-Cut	20.6	4319 - Mixed Upland Forest	High Density Log	79	Harvest	Single Tree Selection	Mixed Upland Forest
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Rev Cmnt: Net acreage will be decreased due to wet area that will be excluded from the sale area.

Rev Spec: Mark to 70-90 sq ba. Favor oak, white pine, and hemlock where present. Higher BA's are acceptable in Hemlock patches and lower BA's are acceptable in Aspen patches. Refer to the "Complete Marker" for further marking guidelines.

Next Steps: check for adequate regeneration within 4 years of harvest completion.

12 11045012-Cut	14.4	4115 - Y.Birch, Hemlock NH	High Density Log	65	Harvest	Single Tree Selection	Y.Birch, Hemlock NH
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Rev Cmnt: Net acreage will be decrease due to steep topography leading down to beaver pond.

Rev Spec: Mark to 70-90 sq ba. Favor oak, white pine, and hemlock where present. Higer BA's are acceptable in Hemlock areas. Refer to the "Complete Marker" for further marking guidelines.

Next Steps: check for adequate regeneration within 4 years of harvest completion.



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
15 11045015-Cut	1.1	4112 - Maple, Beech, Cherry Association	High Density Log	91	Harvest	Single Tree Selection	Maple, Beech, Cherry Association

Rev
Cmnt:

Rev Mark to 70-90 sq ba. Favor oak, white pine, and hemlock where present. Higher BA's acceptable in Hemlock areas. Refer to the "Complete Marker" for further marking guidelines.
Spec:

Next check for adequate regeneration within 4 years of harvest completion.
Steps:

17 11045017-Cut	5.8	4112 - Maple, Beech, Cherry Association	High Density Pole	73	Harvest	Single Tree Selection	Maple, Beech, Cherry Association
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Rev
Cmnt:

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

Next check for adequate regeneration within 4 years of harvest completion.
Steps:

21 11045021-Cut	271.0	4112 - Maple, Beech, Cherry Association	High Density Log	77	Harvest	Single Tree Selection	Maple, Beech, Cherry Association
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Rev
Cmnt:

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

Next check for adequate regeneration within 4 years of harvest completion.
Steps:

26 11045026-Cut	108.3	4112 - Maple, Beech, Cherry Association	High Density Pole	89	Harvest	Single Tree Selection	Maple, Beech, Cherry Association
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Rev
Cmnt:

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

Next check for adequate regeneration within 4 years of harvest completion.
Steps:

29 11045029-Cut	44.1	4115 - Y.Birch, Hemlock NH	High Density Pole	86	Harvest	Single Tree Selection	Y.Birch, Hemlock NH
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Rev Net acerage will be decreased due to some wet areas that will be excluded from the sale.
Cmnt:

Rev Mark to 70-90 sq ba. Favor oak, white pine, and hemlock where present. Higher BA's are acceptable in Hemlock areas and lower BA's are acceptable in Aspen areas. Refer to the "Complete Marker" for further marking guidelines.
Spec:

Next check for adequate regeneration within 4 years of harvest completion.
Steps:

33 11045033-Cut	188.4	4112 - Maple, Beech, Cherry Association	High Density Pole	77	Harvest	Single Tree Selection	Maple, Beech, Cherry Association
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Rev
Cmnt:

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

Next check for adequate regeneration within 4 years of harvest completion.
Steps:

**PROPOSED TREATMENTS
NO LIMITING FACTORS**



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
36 11045036-Cut	67.9	4112 - Maple, Beech, Cherry Association	High Density Pole	65	Harvest	Single Tree Selection	Maple, Beech, Cherry Association

Rev
Cmnt:

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

Next Steps: check for adequate regeneration within 4 years of harvest completion.

9 11045009-NonFor	54.9	4115 - Y.Birch, Hemlock NH		83	Non-Forest Management	Brush Cutting	Cool Season Grass
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Rev
Cmnt:

Rev Spec: Cut all brush around Dam to protect its structural integrity.

Next Steps: Monitor and repeat as needed.

**Total Treatment
Acreage Proposed: 1156.2**

**PROPOSED TREATMENTS
WITH LIMITING FACTORS**



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Treatment Name	Acres	Stage1 Cover Type	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Page 1 of 1
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Limiting Factor
and Comment:

Rev
Cmnt:

Rev
Spec:

Next
Steps:

No Treatment
Reason

**Total Treatment
Acreage Proposed: 0**



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 Name	Acres	Comments