



**Baraga Forest Management Unit
Compartment Review Presentation
Compartment #68 Entry Year: 2014
Compartment Acreage: 1857 County: Ontonagon**

Revision Date: 7/18/2012

Stand Examiner: Fred Hansen, John Turunen, Brad Carlson, Jason Mittlestat

Legal Description: T53N R37W Sec 4, 8, 10, 15, 16, 17, 18, 21.

Identified Planning Goals ('Management Area' or 'RMU', if applicable): Fourteen Mile Point Lake Plain

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

Soil and Topography: The compartment is level and wet for the most part. Old beaches are present inland along Lake Superior and the Misery River flows through the east of the compartment.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Most adjacent lands are owned by forest industry with some small private owners to the east.

Unique, Natural Features: The Misery River flows along the eastern edge of the compartment and old beaches can be found inland from the Lake Superior shoreline.

Archeological, Historical, and Cultural Features: None listed.

Special Management Designations or Considerations: The compartment is a designated waterfowl management area and contains Great Lake Marsh.

Watershed and Fisheries Considerations: The Misery River and its tributaries to Lake Superior are trout streams.

Wildlife Habitat Considerations: Compartment 68 is found in the Fourteen Mile Point Lake Plain Management Area a Till-floored Lake Plain in northern Ontonagon County. The dominant forest communities are dry mesic northern forests, mesic northern forests, and boreal forests. Major forest cover types include Northern Hardwood, Hemlock, and Paper Birch. This area is identified as a deer wintering complex however in recent years deer activity in the area has been limited however wildlife management and silvicultural prescriptions here are intended to maintain 70% or greater crown closure within hemlock stands, promote expansion of hemlock inclusions and increase crown closure which provided excellent habitat for American Marten as well as deer.

The following have been identified, as featured species for the Fourteen Mile Point Lake Plain Management Area: American Marten, Pileated Woodpecker, and White-Tailed Deer.

Mineral Resource and Development Concerns and/or Restrictions:

Surface sediments consist of lacustrine (lake) clay and silt. There is insufficient data to determine the glacial drift thickness. The Precambrian Freda Sandstone subcrops below the glacial drift. There is not a current economic use for the Freda. Abandoned copper mines are located ten miles to the southeast. The compartment has not been leased before. The nearest gravel pits are located two miles to the east and potential appears very limited. There is no economic oil and gas production in the UP.

Vehicle Access: Access is from US-41 and county roads. Internal access is by foot only.

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

Recreational Facilities and Opportunities: There is a boating access site on the Misery River on the east side of the compartment.

Fire Protection: This is not a fire prone area.

Additional Compartment Information:

See report “7 - Proposed Special Conservation Area SCA Details” for changes to SCA’s.

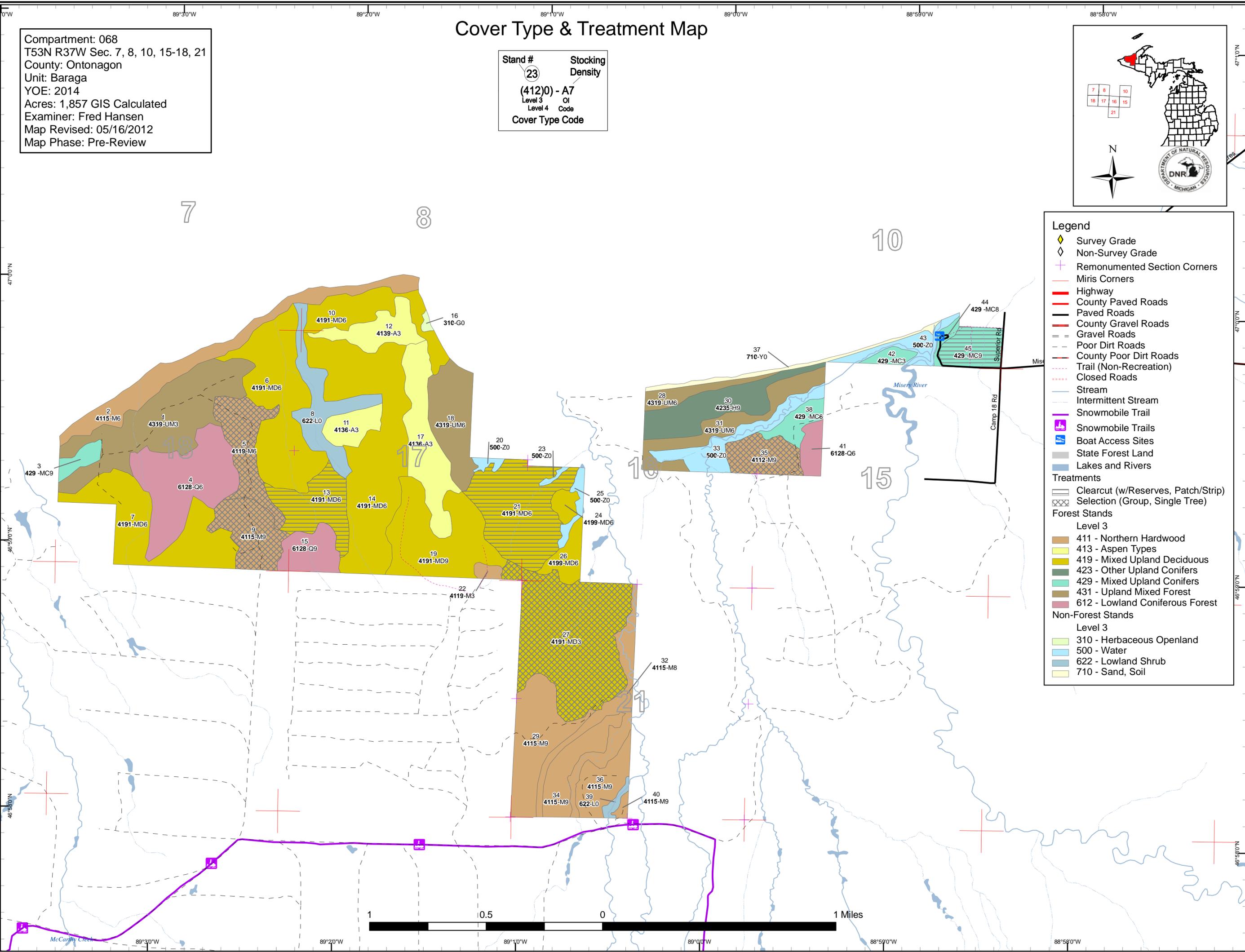
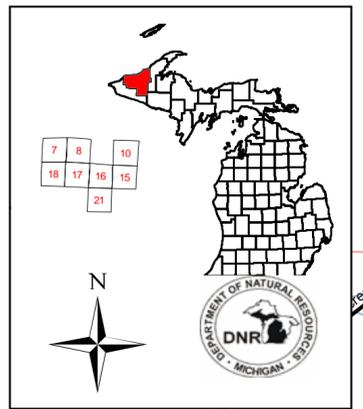
- **The following reports from the Inventory are attached:**
 - ◆ **Total Acres by Cover Type and Age Class**
 - ◆ **Proposed Treatment Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
 - ◆ **Stand Details (Forested and Nonforested)**
 - ◆ **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: 068
 T53N R37W Sec. 7, 8, 10, 15-18, 21
 County: Ontonagon
 Unit: Baraga
 YOE: 2014
 Acres: 1,857 GIS Calculated
 Examiner: Fred Hansen
 Map Revised: 05/16/2012
 Map Phase: Pre-Review

Stand # **Stocking Density**
 (23)
(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
- Snowmobile Trail
- Snowmobile Trails
- Boat Access Sites
- State Forest Land
- Lakes and Rivers

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
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 710 - Sand, Soil



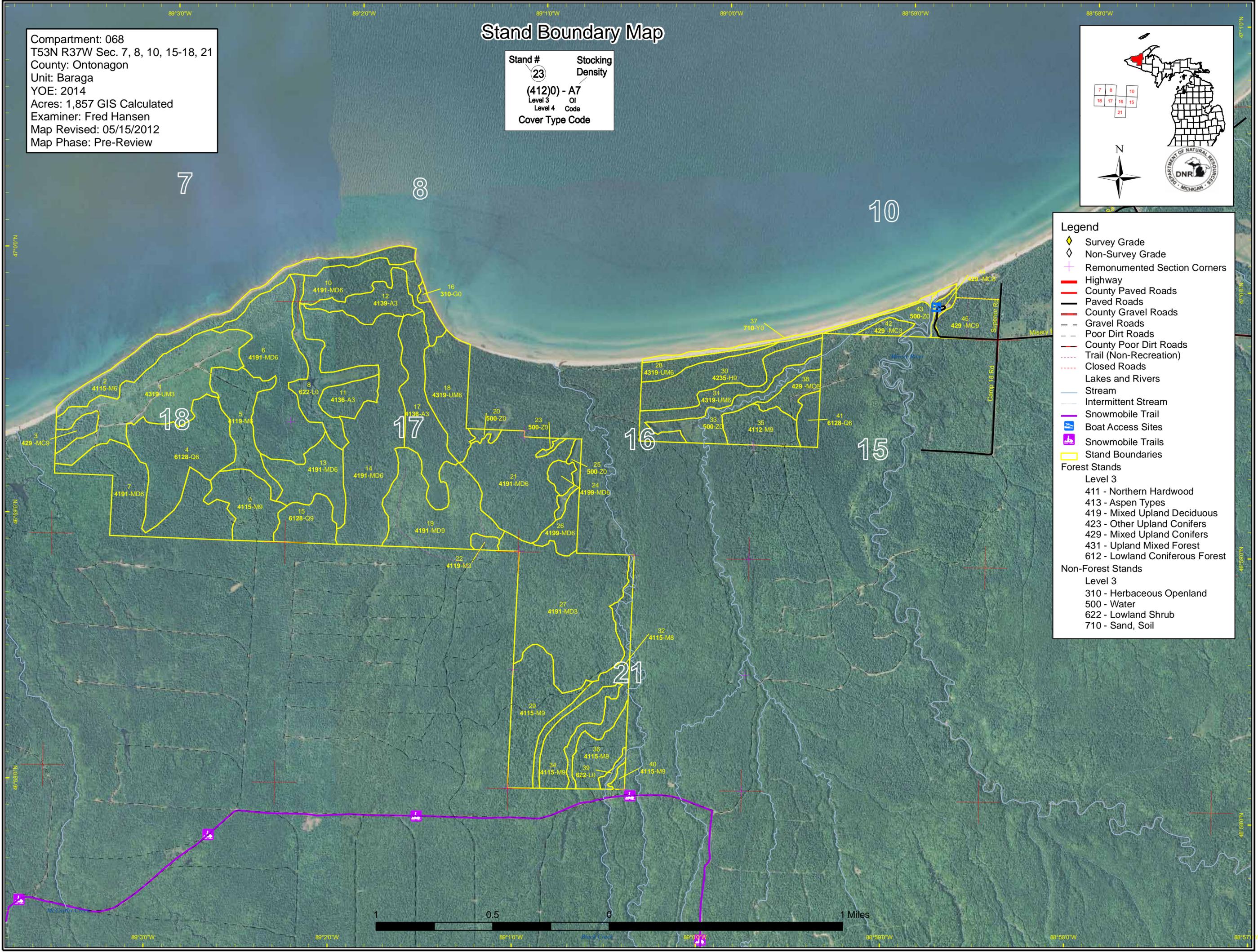
Stand Boundary Map

Compartment: 068
 T53N R37W Sec. 7, 8, 10, 15-18, 21
 County: Ontonagon
 Unit: Baraga
 YOE: 2014
 Acres: 1,857 GIS Calculated
 Examiner: Fred Hansen
 Map Revised: 05/15/2012
 Map Phase: Pre-Review

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



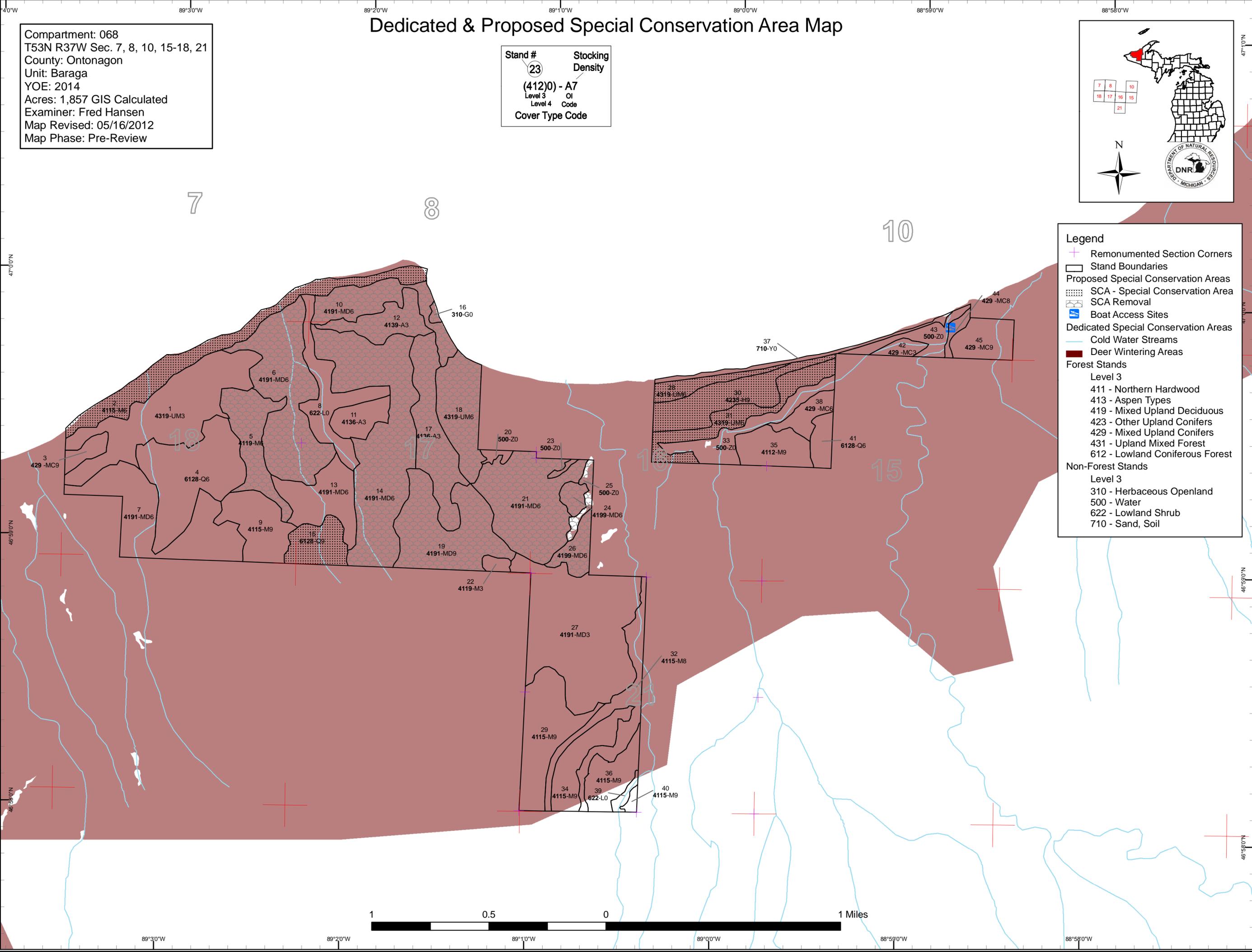
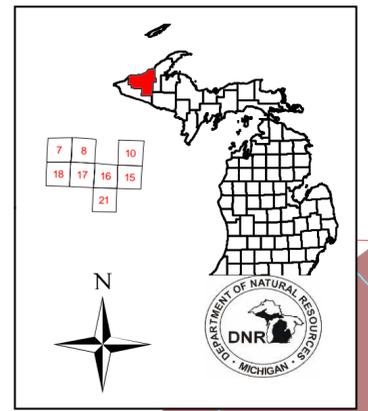
- Legend**
- ◆ Survey Grade
 - ◇ Non-Survey Grade
 - + Remonumented Section Corners
 - Highway
 - County Paved Roads
 - Paved Roads
 - County Gravel Roads
 - Gravel Roads
 - Poor Dirt Roads
 - County Poor Dirt Roads
 - Trail (Non-Recreation)
 - Closed Roads
 - Lakes and Rivers
 - Stream
 - Intermittent Stream
 - Snowmobile Trail
 - Boat Access Sites
 - Snowmobile Trails
 - Stand Boundaries
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 423 - Other Upland Conifers
 - 429 - Mixed Upland Conifers
 - 431 - Upland Mixed Forest
 - 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- Level 3
- 310 - Herbaceous Openland
 - 500 - Water
 - 622 - Lowland Shrub
 - 710 - Sand, Soil



Dedicated & Proposed Special Conservation Area Map

Compartment: 068
 T53N R37W Sec. 7, 8, 10, 15-18, 21
 County: Ontonagon
 Unit: Baraga
 YOE: 2014
 Acres: 1,857 GIS Calculated
 Examiner: Fred Hansen
 Map Revised: 05/16/2012
 Map Phase: Pre-Review

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



Legend

- ✚ Remonumented Section Corners
- ▭ Stand Boundaries
- Proposed Special Conservation Areas
- ▨ SCA - Special Conservation Area
- ▩ SCA Removal
- 🚤 Boat Access Sites
- 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
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- Non-Forest Stands
- Level 3
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 710 - Sand, Soil



89°40'W 89°30'W 89°20'W 89°10'W 89°00'W 88°50'W 88°59'0"W 88°58'0"W

47°00'N

46°55'0"N

46°50'0"N

47°10'N

47°00'N

46°55'0"N

46°50'0"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	0	0	51	0	0	0	0	0	0	0	0	0	0	60	111
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	51	51
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	13	0	0	116	129
Lowland Shrub	48	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	152	0	0	0	0	640	792
Northern Hardwood	0	0	5	0	0	0	0	0	0	0	0	0	0	358	362
Sand, Soil	13	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Upland Conifers	0	0	0	0	0	0	0	0	0	0	22	0	0	43	65
Upland Mixed Forest	111	0	0	0	0	16	0	0	0	0	0	0	0	91	218
Water	66	0	0	0	0	0	0	0	0	0	0	0	0	0	66
Total	239	0	55	0	0	16	0	0	152	0	35	0	0	1360	1857



Table 2 – Proposed Treatment Summaries

Baraga Mgt. Unit
Year of Entry 2014

Compartment 068
Total Compartment Acres: 1857

Acres by Treatment Type

Commercial Harvest - 435	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
Mixed Upland Deciduous		137	154	0	0	0	0	291
Northern Hardwood		0	117	0	0	0	0	117
Upland Conifers		27	0	0	0	0	0	27
Total		164	271	0	0	0	0	435



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
5	11068005-Cut	44.4	4119 - Mixed Northern Hardwoods	High Density Pole	99	200+	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
<p><u>Prescription</u> Selectively thin hardwoods to 70-90 sqft of BA. Favor hemlock, white pine and cedar where present. Where 30 sqft or more of hemlock occurs</p> <p><u>Specs:</u> thin to no less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Other</u> Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type.</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>										
9	11068009-Cut	42.3	4115 - Y.Birch, Hemlock NH	High Density Log	99	141-170	Harvest	Single Tree Selection	4115 - Y.Birch, Hemlock NH	Cmpt. Review Proposal
<p><u>Prescription</u> Selectively thin hardwoods to 70-90 sqft of BA. Favor hemlock, white pine and cedar where present. Where 30 sqft or more of hemlock occurs</p> <p><u>Specs:</u> thin to no less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Other</u> Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type.</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>										
27	11068027-Cut	153.8	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	99	111-140	Harvest	Single Tree Selection	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<p><u>Prescription</u> Selectively thin hardwoods to 70-90 sqft of BA. Favor hemlock, white pine and cedar where present. Where 30 sqft or more of hemlock occurs</p> <p><u>Specs:</u> thin to no less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Other</u> Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type.</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>										
35	11068035-Cut	30.5	4112 - Maple, Beech, Cherry Association	High Density Log	99	81-110	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 hemlock, white pine and cedar where present. Where 30 sqft or more of hemlock occurs</p> <p><u>Specs:</u> thin to no less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Other</u> Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type.</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>										

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	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
45	11068045-Cut	27.1	429 - Mixed Upland Conifers	High Density Log	100	81-110	Harvest	Clearcut with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal

Prescription Harvest all species down to 4.6 inches DBH except hemlock, white pine, red pine and cedar if present.

Specs:

Other Retention for this stand will be greater than 3% and will consist of reserve tree species.

Comments: *See the HAL Comments in the compartment file.*

No whole tree harvesting.

Next Steps: Check for adequate regeneration within 5 years of harvest completion.

Proposed

Start Date: 10/01/2013

**Total Treatment
Acreage Proposed: 298.1**



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
13	11068013-Cut	45.3	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	100		Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Harvest all species down to 4.6 inches DBH except hemlock, white pine and cedar if present. Extra care shall be taken to protect hemlock and cedar throughout the stand.</p> <p><u>Other Comment:</u> Retention for this stand will be greater than 3% and will consist of reserve tree species. Winter harvest only.</p> <p><u>Next Steps:</u> Check for adequate regeneration within 5 years of harvest completion.</p> <p><u>Proposed Start Date:</u> 10/01/2013</p> <p><u>Limiting Factor and No Treatment Reason</u> 2G: Too wet (sensitive soils, does not include access issues)</p>										

21	11068021-Cut	92.0	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	93	51-80	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Harvest all species down to 4.6 inches DBH except hemlock, white pine and cedar if present. Extra care shall be taken to protect hemlock and cedar throughout the stand.</p> <p><u>Other Comment:</u> Retention for this stand will be greater than 3% and will consist of reserve tree species. Winter harvest only.</p> <p><u>Next Steps:</u> Check for adequate regeneration within 5 years of harvest completion.</p> <p><u>Proposed Start Date:</u> 10/01/2013</p> <p><u>Limiting Factor and No Treatment Reason</u> 2G: Too wet (sensitive soils, does not include access issues)</p>										

**Total Treatment
Acreage Proposed: 137.3**

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: 068	Year of Entry: 2014
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
1	4319 - Mixed Upland Forest	High Density Sapling	110.8	6		Lots of cedar has blown down since last cutting	
2	4115 - Y.Birch, Hemlock NH	High Density Pole	66.4	Uneven Age	81-110	Lots of Windthrow, Birch is dead or dying,	
3	429 - Mixed Upland Conifers	High Density Log	9.9	100	141-170		
4	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	88.1	Uneven Age	171-200		
5	4119 - Mixed Northern Hardwoods	High Density Pole	44.4	Uneven Age	200+		
6	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	105.9	Uneven Age			
7	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	87.6	Uneven Age	111-140		
9	4115 - Y.Birch, Hemlock NH	High Density Log	42.3	Uneven Age	141-170		
10	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	44.7	Uneven Age	51-80		
11	4136 - Aspen, Mixed Conifer	High Density Sapling	19.9	23			
12	4139 - Aspen, Mixed Deciduous	High Density Sapling	30.7	20	1-50		
13	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	45.3	Uneven Age			
14	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	151.9	80	51-80		
15	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	27.9	Uneven Age	171-200		
17	4136 - Aspen, Mixed Conifer	High Density Sapling	60.4	Uneven Age			
18	4319 - Mixed Upland Forest	High Density Pole	50.4	Uneven Age	51-80		
19	4191 - Mixed Upland Deciduous with Conifer	High Density Log	86.0	Uneven Age	81-110		
21	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	92.0	Uneven Age	51-80		

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Baraga Mgt. Unit

5 – Forested Stands

Compartment: 068
Year of Entry: 2014

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4119 - Mixed Northern Hardwoods	High Density Sapling	4.6	23		
4199 - Other Mixed Upland Deciduous	High Density Pole	8.2	Uneven Age	51-80	
4199 - Other Mixed Upland Deciduous	High Density Pole	16.6	Uneven Age	51-80	
4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	153.8	Uneven Age	111-140	
4319 - Mixed Upland Forest	High Density Pole	15.6	52	141-170	
4115 - Y.Birch, Hemlock NH	High Density Log	61.9	Uneven Age	81-110	
42350 - Upland Hemlock	High Density Log	51.1	Uneven Age	141-170	
4319 - Mixed Upland Forest	High Density Pole	41.0	Uneven Age	141-170	
4115 - Y.Birch, Hemlock NH	Medium Density Log	46.6	Uneven Age	81-110	
4115 - Y.Birch, Hemlock NH	High Density Log	33.4	Uneven Age	81-110	
4112 - Maple, Beech, Cherry Association	High Density Log	30.5	Uneven Age	81-110	
4115 - Y.Birch, Hemlock NH	High Density Log	29.2	Uneven Age	81-110	
429 - Mixed Upland Conifers	High Density Pole	15.8	Uneven Age	51-80	
4115 - Y.Birch, Hemlock NH	High Density Log	2.9	Uneven Age	81-110	
6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	12.8	100	111-140	wet, wet, wet.
429 - Mixed Upland Conifers	High Density Sapling	7.5	100	51-80	
429 - Mixed Upland Conifers	Medium Density Log	5.0	100	81-110	
429 - Mixed Upland Conifers	High Density Log	27.1	Uneven Age	81-110	



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
2	Unique Site - SCA	11068002	66.4	Previously coded as Stand Condition 8, it is recommended to carry this forward a Type 2 old growth.
5	SCA Removal	11068005_SCA_removal	44.4	Previously coded as Stand Condition 8, it is recommended not to carry this forward.
6	SCA Removal	11068006	105.9	Previously coded as Stand Condition 8, it is recommended not to carry this forward.
10	SCA Removal	11068010	44.7	Previously coded as Stand Condition 8, it is recommended not to carry this forward.
12	SCA Removal	11068012	30.7	Previously coded as Stand Condition 8, it is recommended not to carry this forward.
14	SCA Removal	11068014	151.9	Previously coded as Stand Condition 8, it is recommended not to carry this forward.
15	Unique Site - SCA	11068015	27.9	Previously coded as Stand Condition 8, it is recommended to carry this forward a Type 2 old growth.
17	SCA Removal	11068017	60.4	Previously coded as Stand Condition 8, it is recommended not to carry this forward.
18	SCA Removal	11068018	50.4	Previously coded as Stand Condition 8, it is recommended not to carry this forward.
19	SCA Removal	11068019	86.0	Previously coded as Stand Condition 8, it is recommended not to carry this forward.
21	SCA Removal	11068021_SCA_Removal	92.0	Previously coded as Stand Condition 8, it is recommended not to carry this forward.
24	SCA Removal	11068024	8.2	Previously coded as Stand Condition 8, it is recommended not to carry this forward.
26	SCA Removal	11068026	16.6	Previously coded as Stand Condition 8, it is recommended not to carry this forward.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
8	6220 - Alder/willow	44.1	No	Unspecified	
16	3102 - Grass	1.8	No	Unspecified	
20	50 - Water	3.5	No	Unspecified	
23	50 - Water	1.8	No	Unspecified	
25	50 - Water	7.8	No	Unspecified	
33	50 - Water	33.8	No	Unspecified	
37	710 - Sand, Soil	12.6	No	Unspecified	
39	6220 - Alder/willow	4.1	No	Unspecified	
43	50 - Water	19.0	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
28	Unique Site - SCA	11068028	15.6	Previously coded as Stand Condition 8, it is recommended to carry this forward a Type 2 old growth.
30	Unique Site - SCA	11068030	51.1	Previously coded as Stand Condition 8, it is recommended to carry this forward a Type 2 old growth.
31	Unique Site - SCA	11068031	41.0	Previously coded as Stand Condition 8, it is recommended to carry this forward a Type 2 old growth.
16	SCA Removal	NF_11068016	1.8	Previously coded as Stand Condition 8, it is recommended not to carry this forward.
23	SCA Removal	NF_11068023	1.8	Previously coded as Stand Condition 8, it is recommended not to carry this forward.
25	SCA Removal	NF_11068025	7.8	Previously coded as Stand Condition 8, it is recommended not to carry this forward.



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.

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	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.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area