



**Sault Ste Marie Forest Management Unit**  
**Compartment Review Presentation**  
**Compartment #183**                      **Entry Year: 2012**  
**Compartment Acreage: 1,654**        **County: Mackinac**

---

**Revision Date:** July 12, 2010

**Stand Examiner:** Cory Luoto

**Legal Description:** T44N R11W Sections 8,9,15,16,17; Portage Township

**Identified Planning Goals ('Management Area' or 'RMU', if applicable):** County Line Hardwoods

**Management Goals:** This compartment is located about one-mile northeast of Curtis. A large part of the Black Creek Flooding lies within compartment boundaries. The majority of the compartment is lowland swamp conifer and cedar. Other timber types include lowland poplar, lowland hardwoods, northern hardwoods and aspen. The aspen and spruce – fir types are regenerating nicely and continued cutting is recommended due to their age.

**Soil and Topography:** Lowlands and swamps consist primarily of Markey and Carbondale mucks, with Spot-Finch and Markey-Spot-Finch Complexes. Upland are generally Amadon-Rock outcrop complex, Menominee loamy sand, Wallace sand, and Paquin sand. Level lowlands to rolling uplands.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** This compartment has state land to the north but is mostly surrounded by private land. Section 8 is entirely state owned while the remainder of the compartment has private land holding within its boundaries.

**Unique, Natural Features:** In this compartment there is an osprey nest, an eagle nest, a great blue heron rookery, and the Black Creek Wildlife Flooding.

**Archeological, Historical, and Cultural Features:** There is an old logging camp in this compartment and the Sandtown Cemetery borders one stand.

**Special Management Designations or Considerations:** The stand within this compartment are only accessible in the winter. Care will have to be taken when logging on the snowmobile trails. Proper signing and keeping a snow base on the trail will be timber sale requirements.

**Watershed and Fisheries Considerations:** This compartment contains the Black Creek Flooding and a reach of the lower Black Creek. The Black Creek Flooding supports a fish community of northern pike, largemouth bass, yellow perch, pumpkinseed sunfish, brown bullhead, and rock bass. Black Creek and the impoundment should also be buffered to ensure a supply of trees to provide woody material to the stream and impoundment for fish habitat.

**Wildlife Habitat Considerations:** This compartment lies just east of Manistique Lake, and contains the Black Creek Flooding on the west side. The flooding and surrounding marsh and cedar swamp habitat cover a large part of the compartment. Remaining parts of contiguous portions of the compartment contain a mix of lowland hardwoods and conifers, aspen, and northern hardwoods. Three other disjunct 40 acre pieces exist to the east primarily contain cedar swamp and northern hardwoods. Wildlife objectives include maintaining the wetland habitat in the flooding for eagles, osprey, waterfowl, and other wetland wildlife,

protecting lowland conifer swamps to provide winter yarding habitat for white-tailed deer, providing young early-successional habitat for ruffed grouse, American woodcock, and deer, and maintaining diversity in hardwood habitat. Hemlock, cherry, and yellow birch will be left where present, and 3-5 beech will be left per acre where present. Harvesting will take place during the winter to provide browse for wintering deer. Other species benefitting from this management include wood ducks, blue heron, osprey, bobcat, black bear, and American marten.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of lacustrine (lake) sand and gravel, peat and muck and coarse-textured till. The glacial drift thickness varies between 10 and 100 feet. The Silurian Burnt Bluff Group subcrops below the glacial drift. The Burnt Bluff is quarried for stone/limestone thirteen miles to the southwest (Inland quarry). The nearest gravel pits are located in Sections 16 and 17. There appears to be gravel potential in the south end of the compartment. There is no economic oil and gas production in the UP, currently.

**Vehicle Access:** H-33, a paved county road, and the Black Creek Flooding Road, a seasonal dirt road, access the compartment from the west. Sandtown Road is a gravel county road that runs along the southern border of compartment 183. There are also several two tracks and ice-roads that access the interior of the compartment.

**Survey Needs:** None

**Recreational Facilities and Opportunities:** A groomed snowmobile trails runs through sections 15, 16, and 17.

**Fire Protection:** This is a low fire danger area.

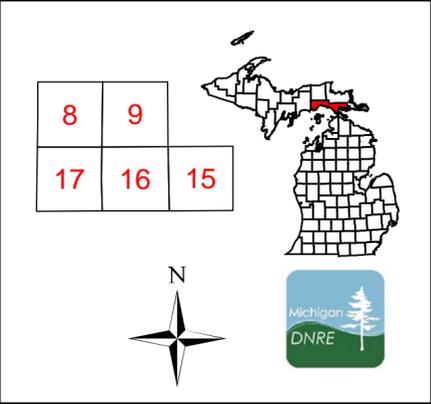
**Additional Compartment Information:**

- **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**

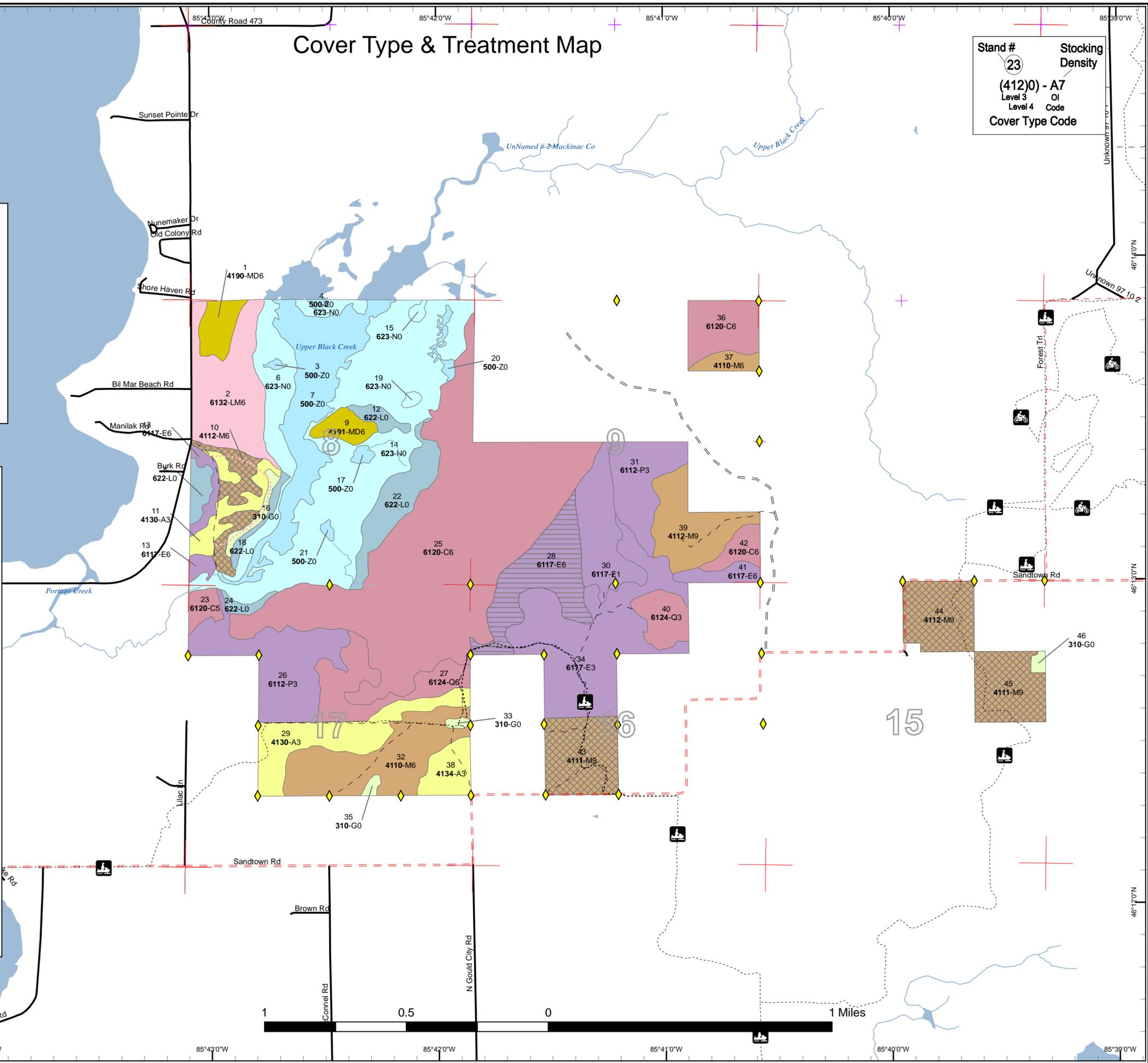
# Cover Type & Treatment Map

Compartment 183  
 T44N, R11W, Sec. 9, 9, 15-17  
 County: Mackinac  
 Unit: Sault Ste. Marie  
 YOE: 2012  
 Acres: 1,654 GIS Calculated  
 Stand Examiner: Cory Luoto  
 Map Revised: 8/13/2010  
 Map Phase: Pre-Review

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



- Legend**
- Miris Corners
  - Remonumented Section Corners
  - ◆ RLS Corners
  - Paved Roads
  - - - County Gravel Roads
  - - - Gravel Roads
  - - - Poor Dirt Roads
  - - - County Poor Dirt Roads
  - - - Closed Roads
  - ... Trails
  - 🏍 Motorcycle Trails
  - 🏂 Snowmobile Trails
  - Intermittent Stream/Drain
  - Stream
  - 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
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
  - 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3
- 310 - Herbaceous Openland
  - 500 - Water
  - 622 - Lowland Shrub
  - 623 - Emergent Wetland



# Stand Boundary Map

Compartment 183  
 T44N, R11W, Sec. 9, 9, 15-17  
 County: Mackinac  
 Unit: Sault Ste. Marie  
 YOE: 2012  
 Acres: 1,654 GIS Calculated  
 Stand Examiner: Cory Luoto  
 Map Revised: 8/13/2010  
 Map Phase: Pre-Review

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

**Legend**

- Miris Corners
- ✦ Remonumented Section Corners
- ◆ RLS Corners
- Paved Roads
- == County Gravel Roads
- - Gravel Roads
- - Poor Dirt Roads
- - County Poor Dirt Roads
- ⋯ Closed Roads
- ⋯ Trails
- 🏍 Motorcycle Trails
- 🏂 Snowmobile Trails
- Intermittent Stream/Drain
- Stream
- ▭ Stand Boundaries

**Forest Stands**

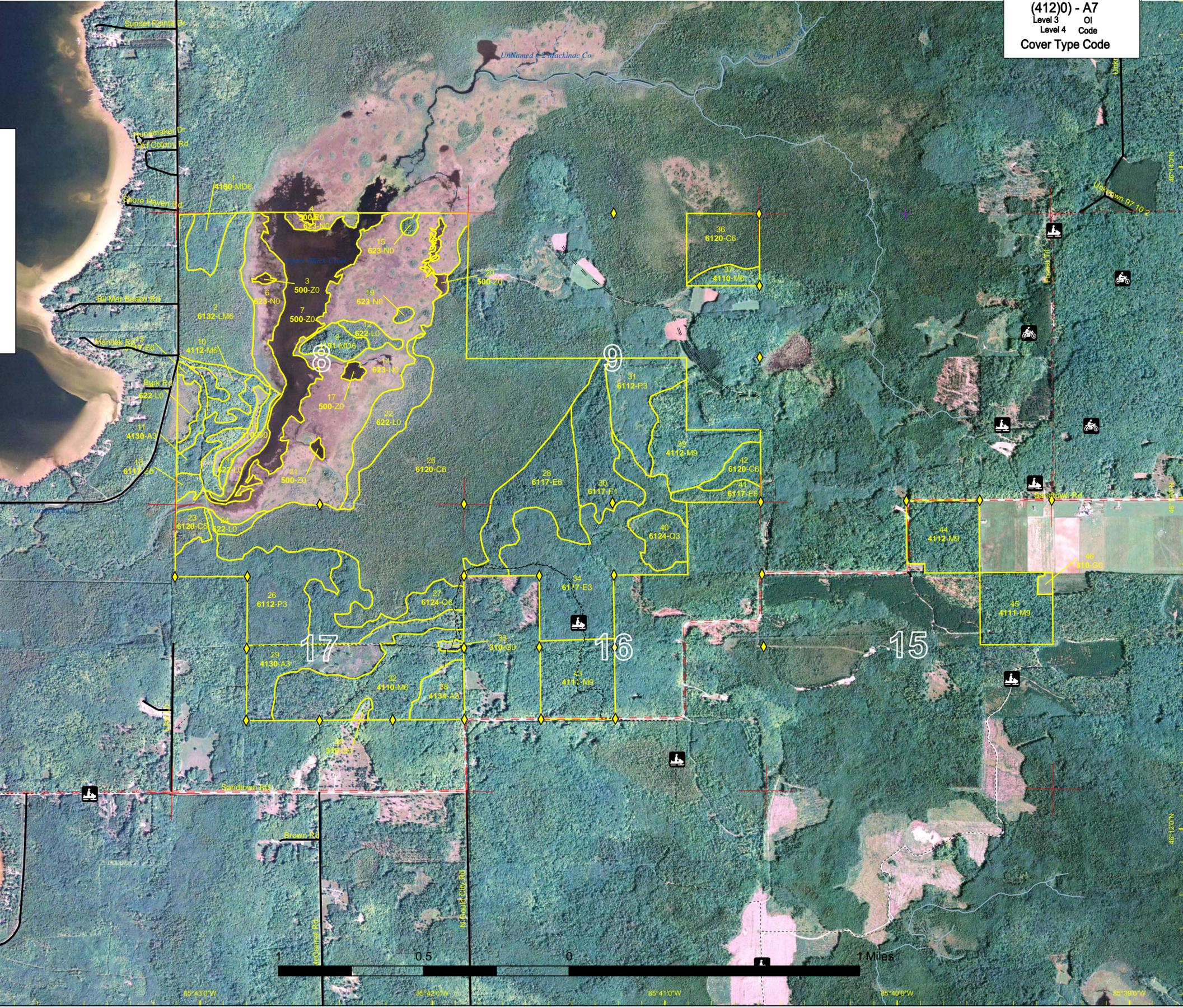
**Level 3**

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

**Non-Forest Stands**

**Level 3**

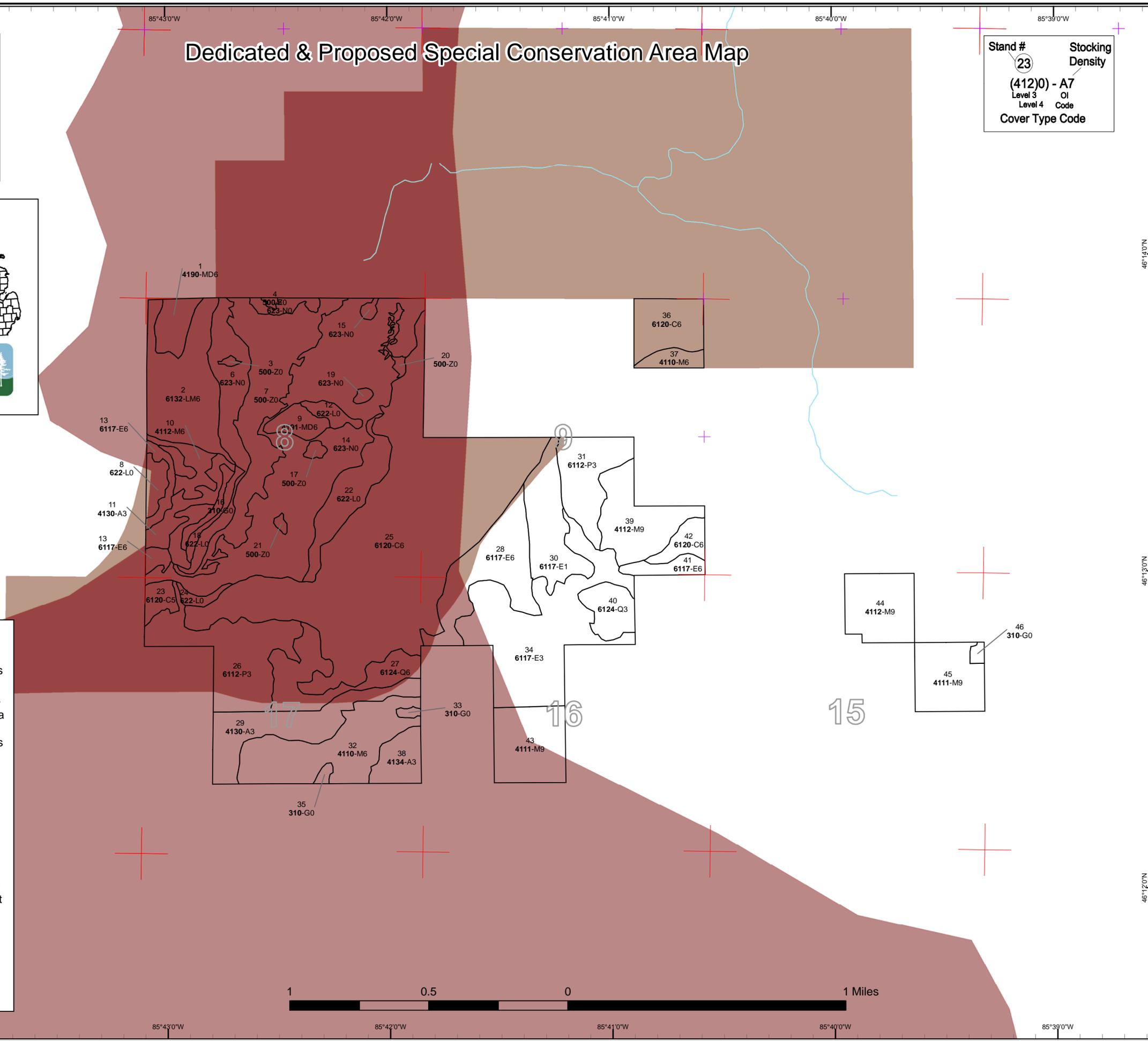
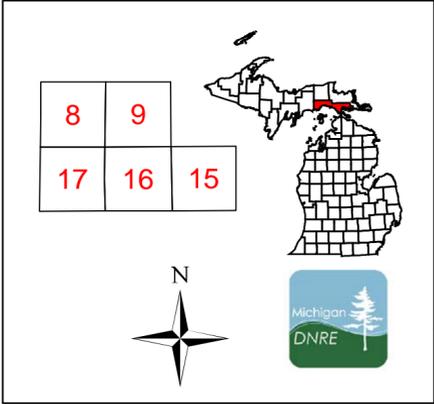
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



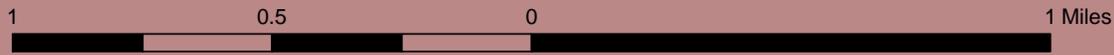
# Dedicated & Proposed Special Conservation Area Map

Compartment 183  
 T44N, R11W, Sec. 9, 9, 15-17  
 County: Mackinac  
 Unit: Sault Ste. Marie  
 YOE: 2012  
 Acres: 1,654 GIS Calculated  
 Stand Examiner: Cory Luoto  
 Map Revised: 8/13/2010  
 Map Phase: Pre-Review

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



- Legend**
- Miris Corners
  - + Remonumented Section Corners
  - Stand Boundaries
  - Proposed Special Conservation Areas
  - ▨ SCA - Special Conservation Area
  - ▩ SCA Removal
  - Dedicated Special Conservation Areas
  - Wildlife Management Areas
  - Deer Wintering Areas
  - Cold Water Streams
  - Ⓡ Boat Access Sites
  - Forest Stands
  - Level 3
  - 411 - Northern Hardwood
  - 413 - Aspen Types
  - 419 - Mixed Upland Deciduous
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
  - 613 - Lowland Mixed Forest
  - Non-Forest Stands
  - Level 3
  - 310 - Herbaceous Openland
  - 500 - Water
  - 622 - Lowland Shrub
  - 623 - Emergent Wetland



**Table 1 – Total Acres by Cover Type and Age Class**

Data updated before 2:00 PM



	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	0	51	0	39	0	0	0	0	0	0	0	0	0	0	0	90
Cedar	0	0	0	0	0	0	0	0	0	340	9	31	0	0	0	380
Herbaceous Openland	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Aspen/Balsam Poplar	0	0	40	0	68	0	0	0	0	0	0	0	0	0	0	108
Lowland Conifers	0	20	0	0	0	43	0	0	0	0	0	0	0	0	0	62
Lowland Deciduous	0	43	0	0	115	0	10	0	58	12	0	0	0	0	0	238
Lowland Mixed Forest	0	0	0	0	0	0	0	0	68	0	0	0	0	0	0	68
Lowland Shrub	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Marsh	243	0	0	0	0	0	0	0	0	0	0	0	0	0	0	243
Mixed Upland Deciduous	0	0	0	0	0	0	0	15	12	0	0	0	0	0	0	27
Northern Hardwood	0	0	0	0	0	0	92	0	176	0	0	0	0	0	0	268
Water	97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97
<b>Total</b>	<b>411</b>	<b>114</b>	<b>40</b>	<b>39</b>	<b>183</b>	<b>43</b>	<b>102</b>	<b>15</b>	<b>314</b>	<b>352</b>	<b>9</b>	<b>31</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1654</b>



## Table 2 – Proposed Treatment Summaries

Data updated before 2:00 PM

Sault Ste. Marie Mgt. Unit  
Year of Entry 2012

Compartment 183  
Total Compartment Acres: 1654

### Acres by Treatment Type

Commercial Harvest - 201	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
Lowland Deciduous	58	0	0	0	0	0	58
Northern Hardwood	0	144	0	0	0	0	144
<b>Total</b>	<b>58</b>	<b>144</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>201</b>



Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
10	45183010-Cut	21.5	4112 - Maple, Beech, Cherry Association	High Density Pole	52	Harvest	Single Tree Selection	Maple, Beech, Cherry Association	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Concentrate on salvaging declining beech. Leave 3-5 beech per acre wherever possible. Thin around drip edges of hemlock and cherry when able to do so.</p> <p><u>Other Comments:</u> Acceptable to cut in the summer.</p> <p><u>Next Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.</p>									
28	45183028-Cut	57.7	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	75	Harvest	Clearcut with Reserves	Aspen, Spruce/Fir	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Cut all deciduous 2" or more and conifer 4" or more within the stand. Some areas will not be harvested for retention. Budding trees will be left along edges, especially against the younger aspen age classes. The stand has alot of cedar in the south. Stay out of the dense cedar areas.</p> <p><u>Other Comments:</u> The adjacent stand was cut in the winter of 2008. The aspen regen is doing great already 6' tall!</p> <p><u>Next Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.</p>									
43	45183043-Cut	45.4	4111 - S.Maple, Hard Mast Association	High Density Log	71	Harvest	Single Tree Selection	Maple, Beech, Cherry Association	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Concentrate on salvaging declining beech. Leave 3-5 beech per acre wherever possible. Also thin around drip edges of hemlock and cherry where possible.</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.</p>									
44	45183044-Cut	38.9	4112 - Maple, Beech, Cherry Association	High Density Log	74	Harvest	Single Tree Selection	Maple, Beech, Cherry Association	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Concentrate on salvaging declining beech. Leave 3-5 beech per acre wherever possible. Also thin around drip edges of hemlock and cherry where possible.</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.</p>									
45	45183045-Cut	37.9	4111 - S.Maple, Hard Mast Association	High Density Log	74	Harvest	Single Tree Selection	Maple, Beech, Cherry Association	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Concentrate on salvaging declining beech. Leave 3-5 beech per acre wherever possible. Also thin around drip edges of hemlock and cherry where possible.</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.</p>									
<b>Total Treatment Acreage Proposed:</b>		<b>201.4</b>							



S  
t  
a  
n  
d

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
----------------	-------	------------------	--------------	-----------	----------------	------------------	----------------------	-----------------

#Error

Prescription  
Specs:

Other  
Comment:

Next  
Steps:

Limiting Factor and No  
Treatment Reason

---

**Total Treatment**  
**Acres Proposed: 0**

S t a n d	Sault Ste. Marie Mgt. Unit		5 – Forested Stands			Compartment: 183
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2012
						General Comments:
1	4190 - Mixed Upland Deciduous with Cedar	High Density Pole	15.2	62	51-80	Stand was thinned in 2006. Regen doing good.
2	6132 - Mixed Lowland Forest with Cedar	High Density Pole	68.4	72		Very wet Mackinac Mix stand that has lots of cedar in it. Stand borders the Black Creek flooding.
9	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	11.8	71	111-140	This stand is an island in the Black Creek Flooding. According to old records, there was an attempt to clearcut this stand to create a goose pature. After a skidder went through the ice the attempt was scrapped. There is still evidence of a couple of old deck piles on the island.
10	4112 - Maple, Beech, Cherry Association	High Density Pole	21.5	52	81-110	This stand was thinned in 2006. Part of Black Fly Hardwood.
11	4130 - Aspen	High Density Sapling	20.0	20		Nice aspen stand. This stand is comprised of several patches. A majority of the trees are about 20' tall. Not much balsam in the understory.
13	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	12.0	84	81-110	This stand was part of Black Fly Hardwood. It is primarily a wet hardwood stand, but there is some hemlock and whitepine.
23	6120 - Lowland Cedar	Medium Density Pole	8.5	91		Wet, sparce cedar stand. No thermal value at all.
25	6120 - Lowland Cedar	High Density Pole	328.4	82		Nice cedar stand, no regen.
26	6112 - Lowland Aspen	High Density Sapling	68.5	30		Decent wet aspen stand.
27	6124 - Lowland Spruce-Fir	High Density Pole	42.8	40		Wet Mackinac mix. Look at cutting in 10-20 yrs.
28	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	57.7	75		Stand starting to decline, needs to be cut.
29	4130 - Aspen	High Density Sapling	51.2	6		This stand was originally 3 stands. The north portion was cut in 2001, the east in 2005, and the west in 2008. Regen throughout is doing great. There is also a few patches of cedar in the stand.
30	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Sapling	43.2	1		Stand was cut last winter, regen doing good.
31	6112 - Lowland Aspen	High Density Sapling	39.8	17		Aspen is doing quite good, not a whole lot of balsam.
32	4110 - Sugar Maple Association	High Density Pole	70.4	56	81-110	Stand was thinned in 2004, regen doing great.
34	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	114.6	34		Stand is right on the border of being a pole stand. Some merchantable trees but it is still primarily a sapling stand.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
36	6120 - Lowland Cedar	High Density Pole	31.2	104		Poor quality cedar. Small diameter and poor form. Lots of deer activity though.
37	4110 - Sugar Maple Association	High Density Pole	9.0	78	51-80	Poorer quality sugar maple stand. Small dia's and low % of good boles. Thin heavy next entry.
38	4134 - Aspen, Spruce/Fir	High Density Sapling	18.7	24		Nice aspen stand, formerly had some U types but have filled in to be part of this stand.
39	4112 - Maple, Beech, Cherry Association	High Density Log	45.1	75	51-80	This stand was part of the Snopony timber sale. It was cut in 2002. It was accessed through the Grooter property. Look at thinning in another 10 yrs. Deer are browsing this stand fairly heavy.
40	6124 - Lowland Spruce- Fir	High Density Sapling	19.5	3		Stand was cut in the winter of 2007. Regen coming up nicely. Gordon Hamill did a nice job on the sale. There is a small pocket of cedar saplings left in the stand.
41	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	10.3	56		Wet Mackinac mix stand. Harvest in 10 yrs when the hardwood to the north is thinned again.
42	6120 - Lowland Cedar	High Density Pole	11.8	88		Nicer cedar stand. Tons of deer sign. No regen at all.
43	4111 - S.Maple, Hard Mast Association	High Density Log	45.4	71	81-110	Stand was thinned in 2005. Regen doing great.
44	4112 - Maple, Beech, Cherry Association	High Density Log	38.9	74	81-110	This stand was thinned in 2003. All of the remaining beech is dead or dying. Look at thinning in another ten yrs. The NW corner of the stand has a small patch of aspen regen, but it was not big enough to type out.
45	4111 - S.Maple, Hard Mast Association	High Density Log	37.9	74	81-110	This stand was thinned in 2004. All of the remaining beech is dead or dying. Look at thinning in another 10yrs. There is a small patch of aspen in the SW corner.



Stand	Cover Type	Acres	Gen Cmts:
3	50 - Water	1.1	
4	50 - Water	1.0	
5	623 - Emergent Wetland	6.6	
6	623 - Emergent Wetland	42.4	
7	50 - Water	87.0	
8	622 - Lowland Shrub	8.6	
12	622 - Lowland Shrub	6.8	
14	623 - Emergent Wetland	190.3	
15	623 - Emergent Wetland	2.1	
16	310 - Herbaceous Openland	5.8	
17	50 - Water	2.5	
18	622 - Lowland Shrub	5.8	
19	623 - Emergent Wetland	1.8	
20	50 - Water	4.4	
21	50 - Water	1.4	
22	622 - Lowland Shrub	33.4	
24	622 - Lowland Shrub	4.3	
33	310 - Herbaceous Openland	1.8	



Stand	Cover Type	Acres	Gen Cmts:
<b>35</b>	310 - Herbaceous Openland	2.0	
<b>46</b>	310 - Herbaceous Openland	2.3	



### 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.

*Data updated before 2:00 PM*

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.

*Data updated before 2:00 PM*

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

<b>Conservation Area</b>	<b>Type</b>	<b>Description</b>
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.