



**Sault Ste Marie Forest Management Unit**  
**Compartment Review Presentation**  
**Compartment #124                      Entry Year: 2013**  
**Compartment Acreage: 1,908    County: Mackinac**

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**Revision Date:** 7/19/2013

**Stand Examiner:** Cory Luoto

**Legal Description:** T43N R7W Sections: 10 – 12 Hendricks Township

**RMU (if applicable):** Mackinac Mix

**Management Goals:** This compartment is located approximately three miles east of Rexton and five miles north of Epoufette. The timber types within this compartment are predominated by cedar and swamp conifer but there are also aspen – birch, northern hardwoods, white pine, lowland hardwoods, and inclusions of bog types, other lowlands, grassy openings, and there is a red pine plantation. The aspen, birch, and spruce – fir types are regenerating nicely and the hardwoods and hemlock need regular treatment to promote health and growth. The cedar types and previous cutting over the past couple of decades, preclude management opportunities for this entry period.

**Soil and Topography:** Lowlands and swamps consist primarily of Markey and Carbondale mucks, with Spot-Finch and Markey-Spot-Finch complexes. Uplands 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:** Compartment 124 has no private land ownership within its boundaries. The compartment is surrounded by state land except for one private forty along the north border and two private forties along the southern border.

**Unique, Natural Features:** There are a few shallow bog lakes.

**Archeological, Historical, and Cultural Features:** There are no features of note.

**Special Management Designations or Considerations:** There are no special management concerns in this compartment.

**Watershed and Fisheries Considerations:** Portions of this compartment are within the NLMMU and NLHMU. The portion in NLHMU is within the South Branch Carp River watershed, but there is no surface water within the compartment.

**Wildlife Habitat Considerations:** This compartment is located east of Strouble Lake in the St. Ignace subsection of the Niagaran Escarpment and Lake Plain. Lowland conifer swamp consisting of cedar, tamarack, and black spruce dominates much of the compartment and continues to the south. Remaining areas include a red pine plantation as well as some aspen and northern hardwood patches in the southwest corner, and mixes of aspen, northern hardwoods, and lowland deciduous stands on the northern and eastern

sides. Most stands outside of the dominant swamp conifer are young, providing habitat for ruffed grouse, American woodcock, white-tailed deer, and snowshoe hare.

Wildlife objectives include maintaining the integrity of the lowland conifer habitat, protecting rare species, maintaining early successional deciduous habitat, and encouraging diversity in northern hardwoods. Snags and coarse woody debris will be retained to provide habitat for cavity nesters and amphibians. Bobcat, fisher, marten, white-tailed deer, ruffed grouse, snowshoe hare, and thrushes are some of the wildlife species that will benefit from this management.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of lacustrine (lake) sand and gravel and peat and muck. There is insufficient data to determine the glacial drift thickness. The Silurian Engadine Group subgroups below the glacial drift. The Engadine is quarried for stone/limestone elsewhere in the UP. The nearest gravel pit is located one and one-half miles to the northwest. Gravel potential appears to be limited in the compartment. There is no economic oil and gas production in the UP.

**Vehicle Access:** Hiawatha Trail, which is a class A county road, borders the west side of the compartment. There are several two tracks that run off of the paved road that go into Section 10. Access to the eastern part of the compartment is from the Caffey Truck Trail, which is a DNR gravel road. There are numerous abandoned ice roads that are not shown on the map.

**Survey Needs:** None identified at this time.

**Recreational Facilities and Opportunities:** The Caffey Truck Trail is groomed snowmobile trail is also part of the Rexton – Brevort ORV trail.

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

**Additional Compartment Information:** None

➤ **The following reports from the Inventory are attached:**

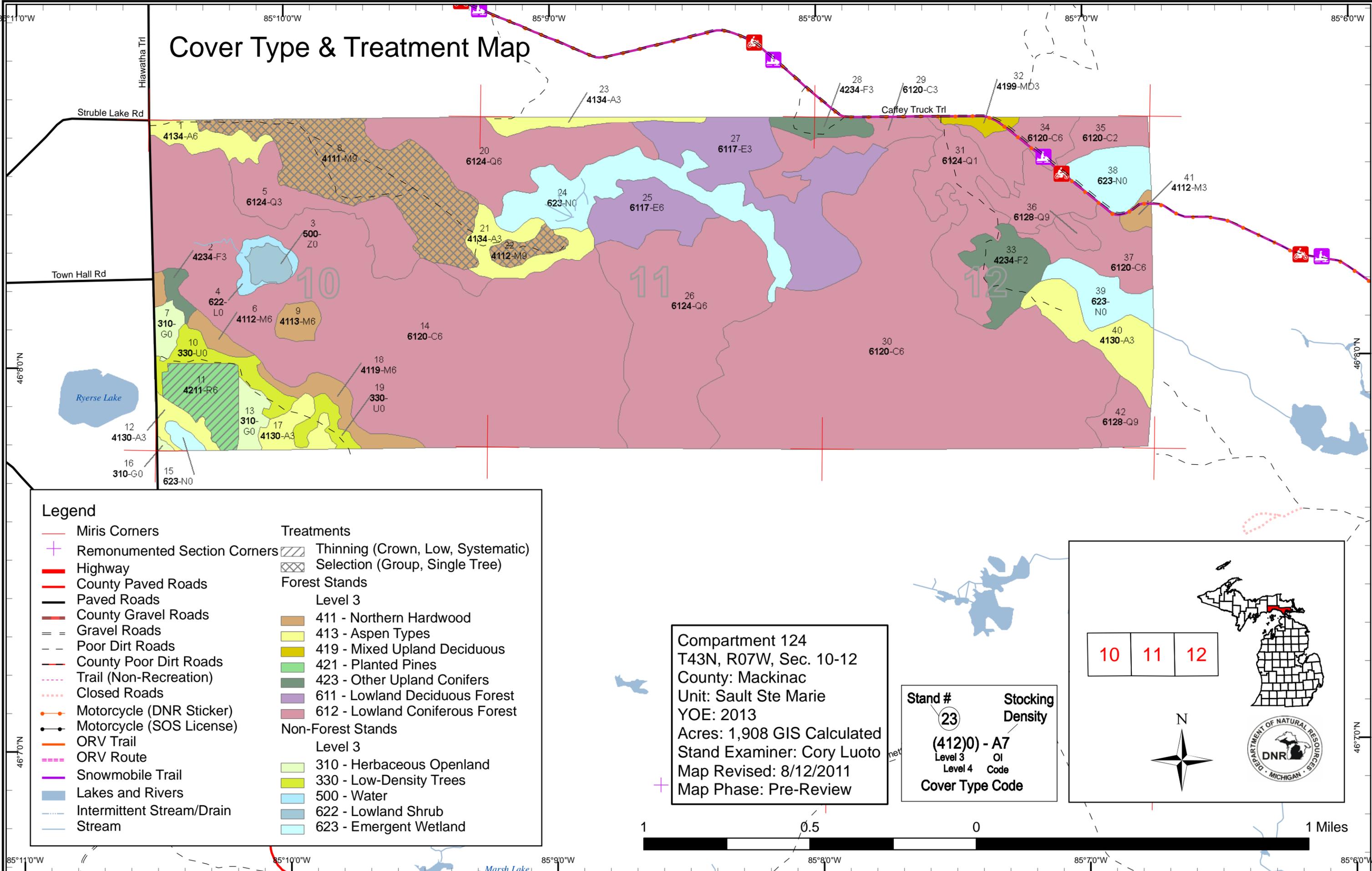
- ◆ **Total Acres by Cover Type and Age Class**
- ◆ **Proposed Treatment Summary**
- ◆ **Proposed Treatments – No Limiting Factors**
- ◆ **Proposed Treatments – With Limiting Factors**
- ◆ **Stand Details (Forested and Nonforested)**
- ◆ **Dedicated and Proposed Special Conservation Areas**

➤ **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



**Legend**

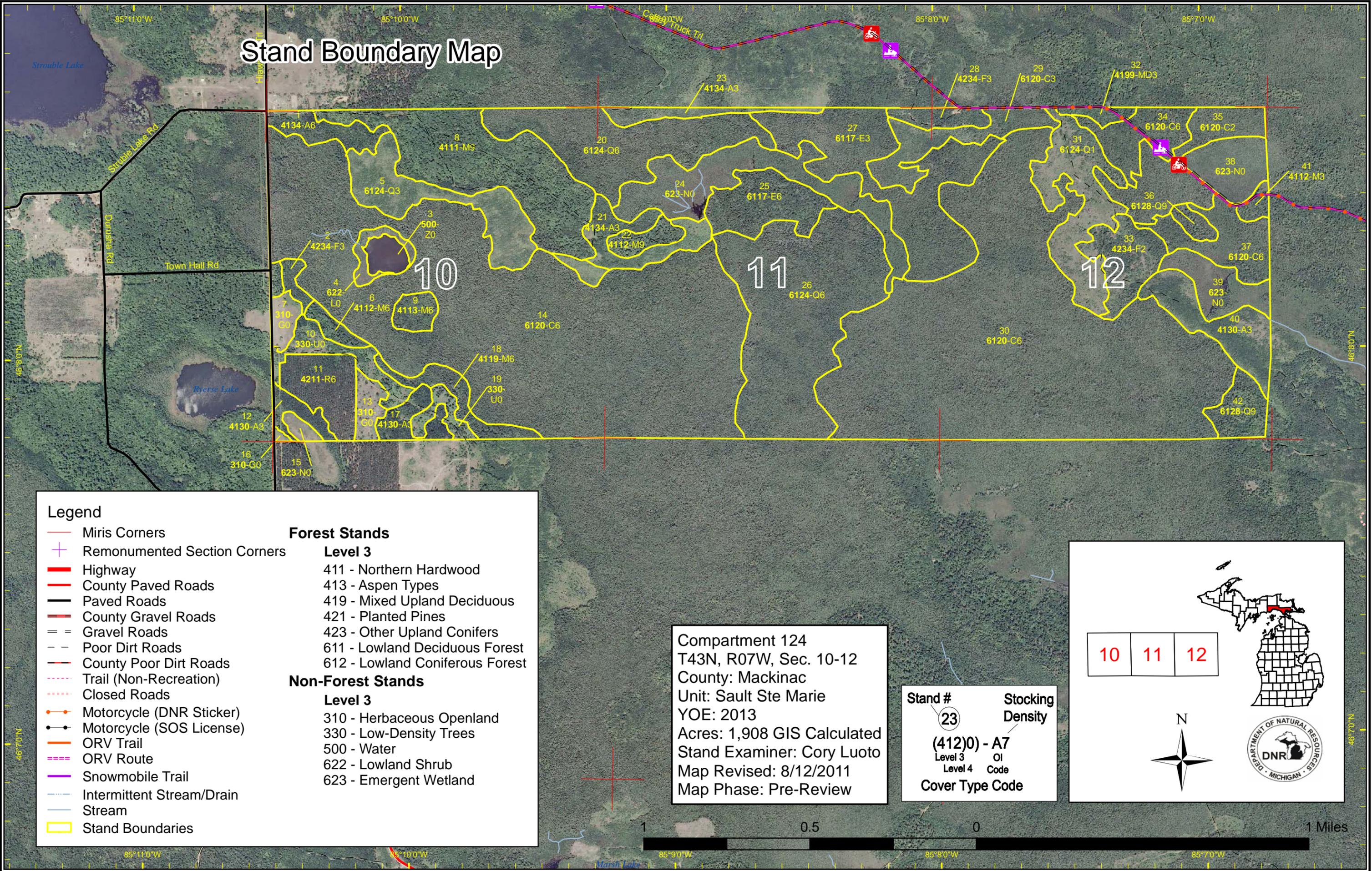
—+— Miris Corners	▨ Treatments
⊕ Remonumented Section Corners	▩ Thinning (Crown, Low, Systematic)
— Highway	▩ Selection (Group, Single Tree)
— County Paved Roads	<b>Forest Stands</b>
— Paved Roads	Level 3
— County Gravel Roads	■ 411 - Northern Hardwood
— Gravel Roads	■ 413 - Aspen Types
— Poor Dirt Roads	■ 419 - Mixed Upland Deciduous
— County Poor Dirt Roads	■ 421 - Planted Pines
— Trail (Non-Recreation)	■ 423 - Other Upland Conifers
— Closed Roads	■ 611 - Lowland Deciduous Forest
— Motorcycle (DNR Sticker)	■ 612 - Lowland Coniferous Forest
— Motorcycle (SOS License)	<b>Non-Forest Stands</b>
— ORV Trail	Level 3
— ORV Route	■ 310 - Herbaceous Openland
— Snowmobile Trail	■ 330 - Low-Density Trees
— Lakes and Rivers	■ 500 - Water
— Intermittent Stream/Drain	■ 622 - Lowland Shrub
— Stream	■ 623 - Emergent Wetland

Compartment 124  
T43N, R07W, Sec. 10-12  
County: Mackinac  
Unit: Sault Ste Marie  
YOE: 2013  
Acres: 1,908 GIS Calculated  
Stand Examiner: Cory Luoto  
Map Revised: 8/12/2011  
Map Phase: Pre-Review

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



# Stand Boundary Map



**Legend**

- Miris Corners
- + Remonumented Section Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
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- Motorcycle (SOS License)
- ORV Trail
- ORV Route
- Snowmobile Trail
- Intermittent Stream/Drain
- Stream
- Stand Boundaries

**Forest Stands**

**Level 3**

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

**Non-Forest Stands**

**Level 3**

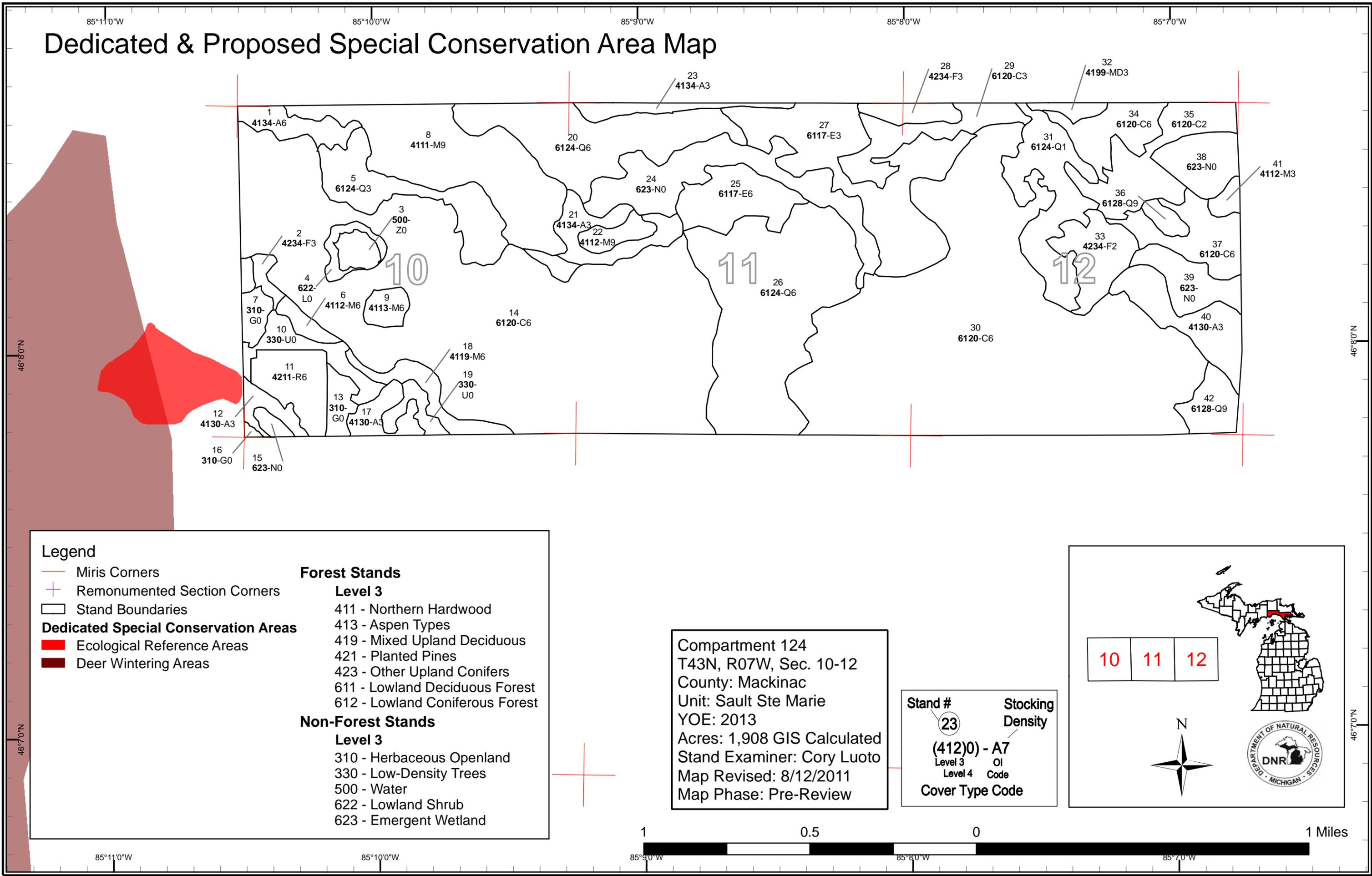
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# Dedicated & Proposed Special Conservation Area Map



**Legend**

- Miris Corners
- Remonumented Section Corners
- Stand Boundaries

**Dedicated Special Conservation Areas**

- Ecological Reference Areas
- Deer Wintering Areas

**Forest Stands**

**Level 3**

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

**Non-Forest Stands**

**Level 3**

- 310 - Herbaceous Openland
- 330 - Low-Density Trees
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 T43N, R07W, Sec. 10-12  
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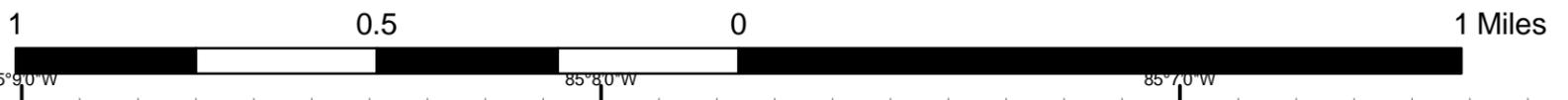
Stand # 23      Stacking Density

(412)0 - A7  
 Level 3      OI  
 Level 4      Code  
 Cover Type Code

10   11   12

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DEPARTMENT OF NATURAL RESOURCES  
 DNR  
 MICHIGAN



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



	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 +		Uneten Age
Aspen	0	0	67	0	22	16	0	0	0	0	0	0	0	0	0	104
Cedar	0	0	0	0	0	0	0	0	42	29	431	0	30	417	0	949
Herbaceous Openland	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Low-Density Trees	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Lowland Conifers	0	0	101	0	0	75	0	0	146	16	6	0	0	0	0	344
Lowland Deciduous	0	0	0	0	90	0	33	0	0	0	0	0	0	0	0	124
Lowland Shrub	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Marsh	111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111
Mixed Upland Deciduous	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
Northern Hardwood	0	0	0	0	5	0	0	25	9	103	0	0	0	0	0	142
Red Pine	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0	27
Upland Spruce/Fir	0	0	28	5	11	0	0	0	0	0	0	0	0	0	0	43
Water	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
<b>Total</b>	<b>170</b>	<b>0</b>	<b>201</b>	<b>5</b>	<b>127</b>	<b>118</b>	<b>33</b>	<b>25</b>	<b>197</b>	<b>148</b>	<b>436</b>	<b>0</b>	<b>30</b>	<b>417</b>	<b>0</b>	<b>1908</b>



## Table 2 – Proposed Treatment Summaries

**Sault Ste. Marie Mgt. Unit**  
**Year of Entry 2013**

**Compartment 124**  
**Total Compartment Acres: 1908**

### Acres by Treatment Type

Commercial Harvest - 131	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
<b>Northern Hardwood</b>	0	104	0	0	0	0		<b>104</b>
<b>Red Pine</b>	0	0	0	0	27	0		<b>27</b>
<b>Total</b>	<b>0</b>	<b>104</b>	<b>0</b>	<b>0</b>	<b>27</b>	<b>0</b>		<b>131</b>



Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
8	45124008-Cut	94.6	4111 - S.Maple, Hard Mast Association	High Density Log	80	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal

Prescription: Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some larger canopy gaps may be desirable to enhance the advanced regeneration present.

Specs: WLD: Also, leave some larger woody trees, snags, and coarse woody debris. Retain current species diversity.

Other

Comments:

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, paper and yellow birch, balsam fir, spruce, aspen and hemlock.

11	45124011-Cut	26.6	42110 - Planted Red Pine	High Density Pole	48	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
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Prescription: Thin to around 120 Basal Area. Leave species diversity within the stand were present.

Specs:

Other

Comments:

Next Steps: None.

22	45124022-Cut	9.4	4112 - Maple, Beech, Cherry Association	High Density Log	73	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
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Prescription: Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some larger canopy gaps may be desirable to enhance the advanced regeneration present.

Specs:

Other

Comments:

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, paper and yellow birch, balsam fir, spruce, aspen and hemlock.

**Total Treatment  
Acreage Proposed: 130.7**

**Table 4 -- Treatments Prescribed with a Limiting Factor**



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

Prescription Specs:

Other Comment:

Next Steps:

Limiting Factor and No Treatment Reason

**Total Treatment Acreage Proposed: 0**

**Out of YOE -- Treatments  
Prescribed with No Limiting Factor**

Year of Entry: 2013



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
<b>45158_OutOfYOE-Cut</b>	2.5				Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription:</u> Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some larger canopy gaps may be desirable to enhance the advanced regeneration present. <u>Specs:</u> <u>Other Comments:</u> <u>Next Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce, black spruce and white pine.								
<b>NF_45134015-NonFor</b>	4.7	Unspecified		0	Non-Forest Management	Patch or Strip Clearcut	31021 - Cool Season Grass	Cmpt. Review Proposal
<u>Prescription:</u> Treat with C149 s 63. Opening maintenance removing jack pine seedlings and saplings. <u>Specs:</u> <u>Other Comments:</u> <u>Next Steps:</u>								
<b>Total Treatment Acreage Proposed:</b>		<b>7.2</b>						

Stand	Sault Ste. Marie Mgt. Unit		5 – Forested Stands			Compartment: 124	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
1	4134 - Aspen, Spruce/Fir	High Density Pole	15.7	48			Small Diameter poles. Cut in ten years. The south side of stand is wet. But the majority is upland.
2	42340 - Upland Spruce/Fir	High Density Sapling	4.9	27			Nice young spruce and balsam stand.
5	6124 - Lowland Spruce-Fir	High Density Sapling	49.2	10			Regen is coming back pretty good.
6	4112 - Maple, Beech, Cherry Association	High Density Pole	9.0	61	51-80		This stand was thinned last year of entry. Should be ready next year of entry.
8	4111 - S.Maple, Hard Mast Association	High Density Log	94.6	80	141-170		Stand was thinned last year of entry and is ready to be thinned again.
9	4113 - R.Maple, Conifer	High Density Pole	8.5	86	111-140		Red maple Island in cedar swamp.
11	42110 - Planted Red Pine	High Density Pole	26.6	48	171-200		This stand was third time thinned last entry. It is ready for another thinning.
12	4130 - Aspen	High Density Sapling	8.7	32			Stand is on the edge between sapling and pole. Going with sapling this entry year.
14	6120 - Lowland Cedar	High Density Pole	430.7	92			Typical Cedar stand. Very wet in places. Scattered small pockets of tag alder and tamarack.
17	4130 - Aspen	High Density Sapling	12.9	35			Small aspen clones. Very healthy looking.
18	4119 - Mixed Northern Hardwoods	High Density Pole	16.0	61	81-110		Mixed conifer maple stand. In some area the maple is heavier. Look at thinning in ten years
20	6124 - Lowland Spruce-Fir	High Density Pole	75.3	47			Variable swamp conifer stand. Very wet to the south, higher ground to the north and along hardwood.
21	4134 - Aspen, Spruce/Fir	High Density Sapling	23.1	10			Nice flush of Birch and aspen regen.
22	4112 - Maple, Beech, Cherry Association	High Density Log	9.4	73	141-170		This stand was thinned last year of entry and is ready to be cut again.
23	4134 - Aspen, Spruce/Fir	High Density Sapling	11.0	10			Stand was cut 10 years ago with compartment to the north. regen doing great
25	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	33.4	52			Pretty wet Mackinac mix stand, white birch is the predominate species. Cut in ten years.



S t a n d	Sault Ste. Marie Mgt. Unit		5 – Forested Stands			Compartment: 124	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
26	6124 - Lowland Spruce-Fir	High Density Pole	145.6	71			Very wet, poor quality swamp conifer. This stand has a little bit of everything. Species composition varies through out stand. Might be ready for cutting in 30-40 years.
27	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	90.1	35			Very wet mackinac mix stand. Lots of red maple, bam and balsam.
28	42340 - Upland Spruce/Fir	High Density Sapling	10.5	35			Thick spruce and balsam. Some cedar on the southern edge.
29	6120 - Lowland Cedar	High Density Sapling	28.6	81			Wet, poor quality cedar. Some poles in the stand but mostly sapling size trees. Small patch of bam in the middle of the stand.
30	6120 - Lowland Cedar	High Density Pole	392.0	140			Poor quality cedar/ lots of standing water
31	6124 - Lowland Spruce-Fir	Low Density Sapling	52.0	14			This stand was doing better 10 years ago. It seems alot wetter now. Regen is sparce and scattered.
32	4199 - Other Mixed Upland Deciduous	High Density Sapling	5.3	14			Stand was clearcut in 1997. Maple, birch, aspen and cherry regen.
33	42340 - Upland Spruce/Fir	Medium Density	27.5	14			Upland portion of the stand that was clearcut in 1997. Regen is doing much better here.
34	6120 - Lowland Cedar	High Density Pole	25.5	122			Very dense cedar stand.
35	6120 - Lowland Cedar	Medium Density	41.9	71			Poor quality cedar regen, wet and sparce in areas.
36	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	5.7	96	111-140		Wet patch of hemlock and red maple.
37	6120 - Lowland Cedar	High Density Pole	30.0	111			Cedar stan with a mix of spruce and balsam
40	4130 - Aspen	High Density Sapling	32.7	13			Nice aspen, not alot of spruce or balsam
41	4112 - Maple, Beech, Cherry Association	High Density Sapling	4.9	30			Thick maple regen
42	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	16.4	88			Nice patch of hemlock and yellow birch.





Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	50 - Water	6.7	N/A	Unspecified	
4	622 - Lowland Shrub	8.0	N/A	Unspecified	
7	310 - Herbaceous Openland	7.8	N/A	Unspecified	
10	330 - Low-Density Trees	18.0	N/A	Unspecified	
13	310 - Herbaceous Openland	9.4	N/A	Unspecified	
15	623 - Emergent Wetland	3.7	N/A	Unspecified	
16	310 - Herbaceous Openland	1.0	N/A	Unspecified	
19	330 - Low-Density Trees	8.5	N/A	Unspecified	
24	623 - Emergent Wetland	61.8	N/A	Unspecified	
38	623 - Emergent Wetland	23.3	N/A	Unspecified	
39	623 - Emergent Wetland	22.0	N/A	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
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**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
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.
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.