



**Escanaba Forest Management Unit  
Compartment Review Presentation  
Compartment #100    Entry Year: 2013  
Compartment Acreage: 841    County: Delta**

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**Revision Date:** July 14, 2011

**Stand Examiner:** Dan McNamee, FMD; Bill Rollo, Wildlife Division

**Legal Description:** T42N, R22W, Sections 8, 17, 20

**Management Goals:** This compartment comprises the North Perkins Deer Yard. A variety of silviculture systems and site prep techniques were used in the regeneration efforts of cedar within this Deer Yard complex. Harvesting in the North Perkins Deer Yard began in 1963 and as cutting progressed, DNR foresters and wildlife managers felt the need for some type of long term direction was needed and a plan was written in February 1970. This plan stated that “timber harvest within this compartment will be aimed at providing winter browse for deer and assuring future coniferous cover with hopefully some cedar reproduction.” The 1970 plan called for strip cutting the 340 acre cedar stand and the plan was followed through the early 1980’s. Timber harvesting was reinitiated in this compartment in 1994. In July 2000 a plan for the Completion of Cedar Regeneration Treatments was written. The harvesting and mechanical site prep treatments were completed in the winter of 2004. There will be no harvest treatments for 20-30 years so as not to draw deer into this area and hopefully the stage will be set for successful cedar regeneration and recruitment. Exclosures were erected and monitoring plots were established. These exclosures and plots will be monitored and evaluated.

**Soil and Topography:** Topography is generally flat. Major soil types are Lupton, Carbondale, Trenary, Cathro, Ensley, and Charlevoix.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Non-industrial private and Plum Creek Timberlands surround this block.

**Unique, Natural Features:** None known

**Archeological, Historical, and Cultural Features:** None known

**Special Management Designations or Considerations:** The “North Perkins Deeryard” is located within this compartment.

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:** This compartment is located within the Deadhorse Moraines Management Area. As described in the Management Goals (above), this compartment has been the site of a major experiment to determine methods of regenerating cedar to benefit deer and other wildlife. Following the completion of treatments in 2004, several monitoring activities were initiated to track vegetative response. One form of monitoring is a 2-3 hour walk conducted every 1-2 years in mid winter to assess deer occupancy, winter food conditions, and impacts of deer on regeneration. Another form of monitoring is an extensive survey of regeneration by counting seedlings in circular (4.5-foot radius) plots located systematically throughout the entire treatment area. The 654 plots sampled in 2002 depicted good cedar stocking in certain portions of the yard, but poor stocking (or heavy maple stocking) in other locations,

particularly the west side. None of the cedar was greater than 1 foot tall. The 452 plots sampled in 2008 depicted a treatment area with relatively low conifer stocking and patchy distribution. Cedar occurred in only 20% of the plots and was always less than 1 foot tall. Spruce, tamarack, balsam fir, and red maple were present as well and typically had a greater height than cedar. It is still too early to draw conclusions about the future composition and stocking. A third form of monitoring is photographs taken at 8 established “photo points” in a specified direction. Photos were taken in 2007 and will be obtained periodically in the future for visual comparison of vegetative change. A fourth form of monitoring is assessment of tree growth in 21 deer-proof exclosures constructed of 6-foot tall, 2 x 4-inch woven wire. In general, these exclosures often show more cedar seedlings and greater height growth than can be found in unprotected locations. Monitoring will continue in upcoming years.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of medium-textured glacial till. There is approximately 80 feet of relief in the compartment. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Trenton Limestone underlies the glacial drift. The Trenton is quarried for dolomite/stone seven miles to the southeast, north of Rapid River. State land was previously leased in the area for metallic exploration. Gravel pits are located within two miles of the compartment. There appears to be good gravel potential. No economic oil and gas productions have been found in the UP. The State owns additional mineral rights in the compartment.

**Vehicle Access:** The compartment can be accessed from the east via a “winter road” that spurs off of North 0.1 Lane.

**Survey Needs:** None needed.

**Recreational Facilities and Opportunities:** Hunting and trapping.

**Fire Protection:** Limited access due to the terrain. Potential for fire is low.

**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**

**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 +		Uneven Age
Aspen	0	0	11	89	14	0	0	0	16	0	0	0	0	0	0	130
Cedar	0	0	0	0	0	5	0	0	0	0	0	0	319	0	99	423
Lowland Conifers	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	20
Lowland Deciduous	0	0	0	0	16	0	0	0	12	0	0	0	0	0	0	28
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	13
Lowland Shrub	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106
Marsh	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Mixed Upland Deciduous	0	0	0	0	45	0	0	0	0	0	0	0	0	0	0	45
Northern Hardwood	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	11
Paper Birch	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6
Upland Spruce/Fir	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	32
<b>Total</b>	<b>132</b>	<b>0</b>	<b>11</b>	<b>89</b>	<b>127</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>45</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>332</b>	<b>0</b>	<b>99</b>	<b>841</b>



## Table 2 – Proposed Treatment Summaries

**Escanaba Mgt. Unit**  
**Year of Entry 2013**

**Compartment 100**  
**Total Compartment Acres: 841.1**

### Acres by Treatment Type

Commercial Harvest - 0	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
	#Error	#Error	#Error	#Error	#Error	#Error	#Error
<b>Total</b>	#Error	#Error	#Error	#Error	#Error	#Error	#Error

**Table 3 -- Treatments Prescribed  
with No 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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Prescription  
Specs:

Other  
Comments:

Next  
Steps:

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**Total Treatment  
Acreage Proposed: 0**

**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
33002_OutOfY OE-Cut	0.7				Harvest	Clearcut with Reserves	6129 - Mixed Coniferous Lowland Forest	Cmpt. Review Proposal

Prescription Final harvest this stand, leaving some seed trees. Harvest this stand with stand 13 in comp 1.

Specs:

Other Decent quality tamarack and spruce stand.

Comments:

Next Manage this stand for a mix of tamarack and spruce primarily, but a mix with other lowland species is acceptable.

Steps:

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**Total Treatment  
Acreage Proposed: 0.7**

Stand	Escanaba Mgt. Unit		5 – Forested Stands			Compartment: 100
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013
						General Comments:
1	42340 - Upland Spruce/Fir	High Density Pole	23.4	36		Stand was treated in the late 1970's, only the mature A, Fb, Ws, and Wb were harvested. The north edge contains a M6 type and the west edge has a small stand of C6.
2	42340 - Upland Spruce/Fir	High Density Pole	5.5	36		Stand data from last inv. Stand was harvested in the late 1970's. Stand was not looked at.
3	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	10.7	36		Did not look at this stand. Stand is located in a 40 north of the main Perkins Deer yard. Data is from the previous OI. Stand was treated in the mid to late 1970's. Look at next inventory period to see if treatment will be needed.
6	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	12.1	70		Black ash drainage with C, Fb, Fs.
7	4140 - Other Upland Deciduous	High Density Pole	5.1	76		Upland in middle of cedar swamp, was not harvested when Perkins Deer Yard was harvested.
8	6120 - Lowland Cedar	Medium Density Pole	22.4	116		Open areas are filling in with ash and balm.
9	6120 - Lowland Cedar	Medium Density Pole	8.8	116		Area was dozed in 2000-2001. Clumps of cedar (12-15 trees/clump) were left. NE corner of stand is mature A, Wb, Fb and Rm. There is an ash drainage included within this stand.
10	6120 - Lowland Cedar	Medium Density Pole	19.9	116		Area was hydromowed and dozed in winter of 2000-2001. Filling in with ash.
11	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	33.8	33		Stand treated in 1978. There are pockets of pure Rm and pockets of pure Fb. There is also A and P scattered throughout the stand.
12	6120 - Lowland Cedar	Medium Density Pole	13.1	116		Stand was treated first in 2001 by a commercial harvest where merchantable timber was removed. Stand was then dozed in 2003- to reduce canopy closure to less than 50%, left clumps .25 - .5 acres in size. Filling in with ash and Fs.
13	4113 - R.Maple, Conifer	High Density Pole	5.9	70		Upland on North west side of compartment. Stand was treated in 2002. Northern hardwood stand was thinned.
14	6120 - Lowland Cedar	Low Density Sapling	45.1	116		This stand was treated from 1960- 1978 using the strip cut method. The leave strips were harvested in 1994 and scattered seed trees were left. The stand is filling in with T, Fs, Fb, C and Wb, especially the strips that were cut earlier, Not much in the the strips that were cut in 94'. Age of stand is from the cutting reports.
15	6120 - Lowland Cedar	Medium Density Pole	7.8	116		Stand was treated in 2001 and again in 2003-2004 as part of the Perkins Deer Yard Plan. This stand was treated with two techniques. The stand was first harvested, removing the good quality timber, then opened up more with dozer to get stand to a 50% crown cover.



Stand	Escanaba Mgt. Unit		5 – Forested Stands			Compartment: 100
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013
						General Comments:
16	6120 - Lowland Cedar	Medium Density Pole	98.9	Uneven Age		Harvested in 2001-04, This area had the merchantable timber removed first then opened up more with the dozer. Crown cover is 50% or less.
17	4140 - Other Upland Deciduous	High Density Pole	1.4	75		Upland on east side near pvt property.
18	6120 - Lowland Cedar	Medium Density Pole	9.5	116		This stand was dozed in winter of 2000-01.
20	6120 - Lowland Cedar	Low Density Pole	13.3	116		Stand was treated in 2001. Merchantable timber was harvested and submerchantable was cut and left. Stand was opened up to 50% crown cover.
22	4112 - Maple, Beech, Cherry Association	High Density Pole	5.4	75		Stand was treated in 1999, contract 330339301.
23	42340 - Upland Spruce/Fir	Low Density Sapling	3.3	30		Upland just before heading into the deer yard. It is filling in with Fs, Fb, T and some A and P.
24	6120 - Lowland Cedar	Low Density Pole	14.6	116		Treated in winter of 2002-04. Merchantable timber was harvested and dozed some of the unmerchantable timber. Seed trees were left. Crown Closure was opened to less than 50%.
25	6123 - Lowland Fir	High Density Sapling	20.3	30		Strip cut in 1955, 1962, 1977-80. Leave strips heavier to Fb, Balm, ash, Wb: cut strips heavier to A, P, ash, and Fb. SW corner pole sized Tamarack, NW corner cedar with Tamarack/balsam fir.
26	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	16.0	30		Aspen, balm, balsam fir- north 2/3, south 1/3 is ash, balm, balsam fir, cedar and tamarack
27	6120 - Lowland Cedar	Medium Density Pole	41.1	116		Merchantable timber was harvested 2000-2001. Seed trees left. Area was also treated with dozer in areas, clumps of 8-12 trees were left. Canopy closure is less than 50%.
28	6120 - Lowland Cedar	Medium Density Pole	10.1	116		Treated in 2000. Stand was commercially harvested to get the canopy closure to 50%.
29	6120 - Lowland Cedar	Low Density Pole	48.3	116		Main winter logging road running east and west was harvested in 1975. The clearcut blocks were cut from 1995-1997. Residual blocks were cut during 97-99 with seed trees being left. In 2000-01 some areas were dozed to get canopy to 50%.
30	6120 - Lowland Cedar	Medium Density Pole	5.2	41		Young cedar 15 - 20 feet tall, average dbh 3-5 inches.
31	4130 - Aspen	High Density Sapling	77.6	21		Mature aspen, balm and Balsam fir were cut in 1990. Stand contains A, P, Ash, Rm, Fb and C.
32	4130 - Aspen	High Density Pole	9.9	70		Nice stand of aspen, East side contains a small pocket of hardwood.



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Escanaba Mgt. Unit

## 5 – Forested Stands

Compartment: 100  
Year of Entry: 2013

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
33	6120 - Lowland Cedar	Low Density Sapling	25.6	116		Stand treated in 1974 by strip cut method. These strips contain P,Wb, and Fs 3-5 feet tall. Residual strips were harvested in 1997-98. These strips contain ash, and Fs 1-3 feet tall.
35	4130 - Aspen	High Density Pole	14.2	30		Treated in 1982.
36	6120 - Lowland Cedar	High Density Pole	19.2	116		Cedar with ash, has not been treated.
38	4130 - Aspen	High Density Sapling	11.0	21		Treated in 1990.
39	6132 - Mixed Lowland Forest with Cedar	High Density Pole	13.3	116		Has not been treated. North part of stand is A, Fb, Ash, Rm. Rest is an E/C type.
40	4130 - Aspen	High Density Sapling	11.3	12		Treated in 1999, contract 330339301.
41	6120 - Lowland Cedar	High Density Pole	20.2	116		Stand not treated. Mix of cedar and Lowland hardwoods.
42	4130 - Aspen	High Density Pole	5.7	77		Stand not treated. Balsam in stand is falling apart or blown down. Access is tough



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
4	6220 - Alder/willow	9.2	No	Low (NonForested)	
5	6233 - Wet Meadow	7.6	No	Unspecified	Old beaver pond that is filling in.
19	6233 - Wet Meadow	11.1	N/A	Unspecified	Old beaver pond. Filling in with grasses, some areas filling in with Tamarack
21	6229 - Mixed lowland shrub	45.0	No	Cedar	D. McNamee - Stand was cut in the winter from 1995-97. These were block cuts with no seed trees. some of these blocks are filling in with T, Fs, Wb, Fb and tag alder. Some blocks are filling in with more tag alder than anything else. Continue to monitor regen plots and exclosures.
34	6233 - Wet Meadow	7.2	N/A	Unspecified	Far east side is a pond, the rest is wet meadow, This used to be all pond but is now filling in.
37	6229 - Mixed lowland shrub	52.0	N/A	Unspecified	This stand was hydromowed in 2003-04. Filling in with T, Fs. Scattered 3-5 inch Wb and C were left.

**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.

<b>Stand</b>	<b>SCA Type</b>	<b>SCA Name</b>	<b>Acres</b>	<b>Comments</b>
41	SCA Removal	33100041-sca removal	20.2	SCA removal. Stand is being removed due to the fact that it does not link to any other habitat complex. It is surrounded by private land.
42	SCA Removal	33100042-sca removal	5.7	SCA removal. Stand is being removed due to fact that it does not link to another complex. It is bordered by private to the west and south and adjacent stand is also being removed.



**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.

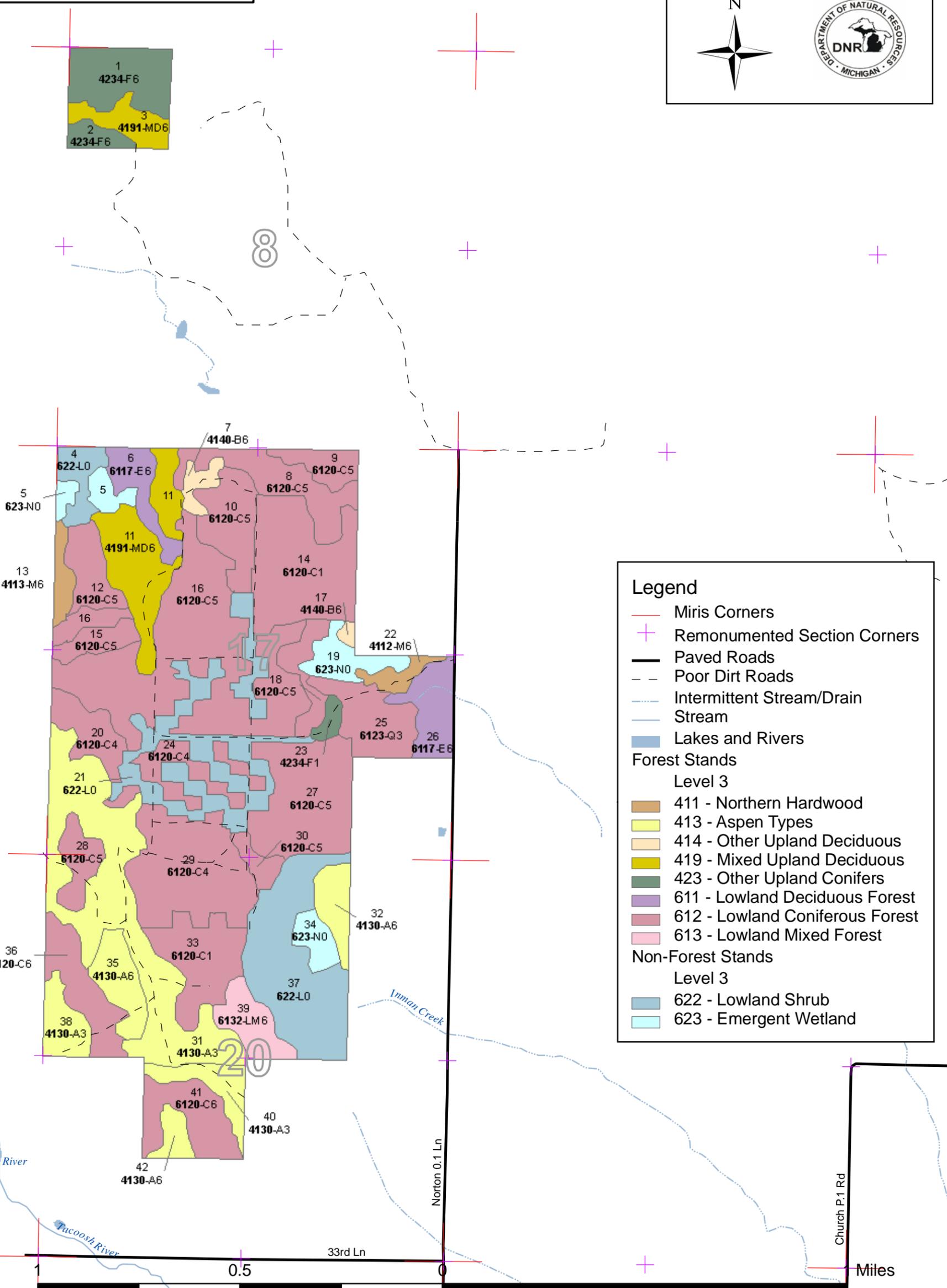
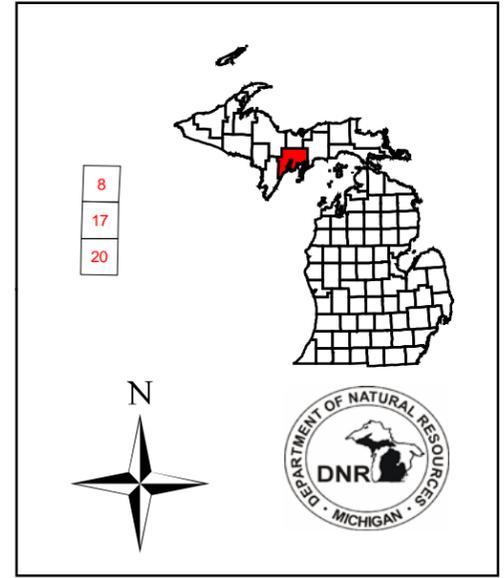
ERA = Ecological Reference Area  
 HCVA = High Conservation Value Area  
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	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.

# Cover Type & Treatment Map

**Compartment 100**  
 T42N, R22W, Sec. 8, 17, 20  
 County: Delta  
 Unit: Escanaba  
 YOE: 2013  
 Acres: 841 GIS Calculated  
 Stand Examiner: Dan McNamee  
 Map Revised: 7/28/2011  
 Map Phase: Pre-Review

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



**Legend**

- Miris Corners
- + Remonumented Section Corners
- Paved Roads
- - - Poor Dirt Roads
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

**Forest Stands**

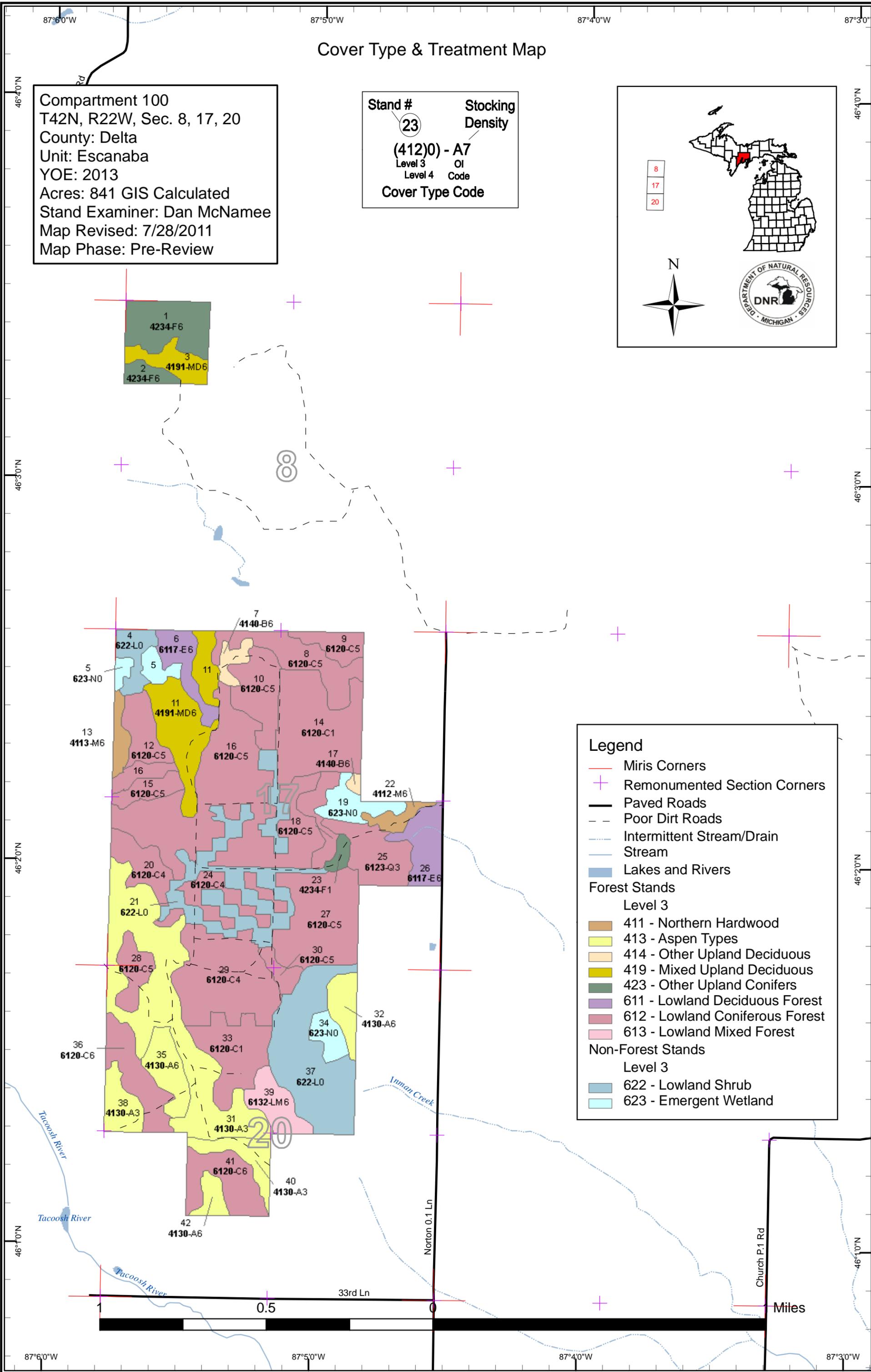
Level 3

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

**Non-Forest Stands**

Level 3

- 622 - Lowland Shrub
- 623 - Emergent Wetland



# Stand Boundary Map

Compartment 100  
 T42N, R22W, Sec. 8, 17, 20  
 County: Delta  
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 Stand Examiner: Dan McNamee  
 Map Revised: 7/28/2011  
 Map Phase: Pre-Review

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

8  
 17  
 20



8

17

20

## Legend

- Miris Corners
  - Remonumented Section Corners
  - Paved Roads
  - Poor Dirt Roads
  - Intermittent Stream/Drain
  - Stream
  - Stand Boundaries
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
  - 413 - Aspen Types
  - 414 - Other Upland Deciduous
  - 419 - Mixed Upland Deciduous
  - 423 - Other Upland Conifers
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
  - 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3
- 622 - Lowland Shrub
  - 623 - Emergent Wetland



87°6'0"W 87°5'0"W 87°4'0"W 87°3'0"W

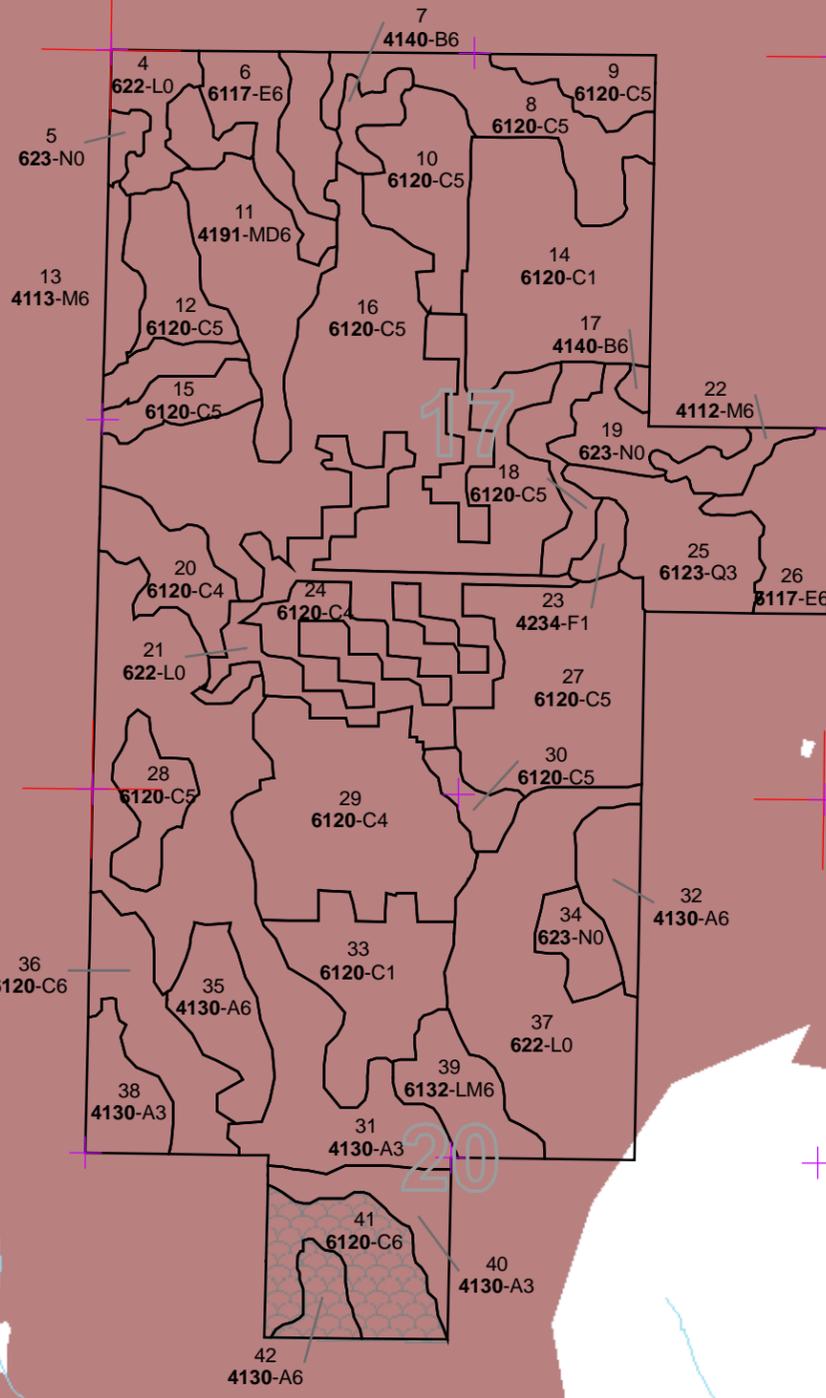
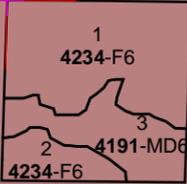
46°4'0"N 46°3'0"N 46°2'0"N 46°1'0"N

87°25'0"E 87°20'0"E 87°15'0"E 87°10'0"E

# Dedicated & Proposed Special Conservation Area Map

**Compartment 100**  
 T42N, R22W, Sec. 8, 17, 20  
 County: Delta  
 Unit: Escanaba  
 YOE: 2013  
 Acres: 841 GIS Calculated  
 Stand Examiner: Dan McNamee  
 Map Revised: 7/28/2011  
 Map Phase: Pre-Review

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



**Legend**

- Miris Corners
- ⊕ Remonumented Section Corners
- Stand Boundaries
- Dedicated Special Conservation Areas
- Deer Wintering Areas
- Cold Water Streams
- Forest Stands
- Level 3
- 411 - Northern Hardwood
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- Non-Forest Stands
- Level 3
- 622 - Lowland Shrub
- 623 - Emergent Wetland

