



## ESCANABA FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

**COMPARTMENT: 49 ENTRY YEAR: 2011**

**Compartment Acreage: 1406      County: Menominee**

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**Revision Date:** August 3, 2009

**Stand Examiner:** Dan McNamee, Forester, Forest, Mineral and Fire Management; Dan Racine, Forester, Forest, Mineral and Fire Management Division; Bill Rollo and Craig Albright, Wildlife Division

**Legal Description:** T35N, R25W SECTIONS 1, 2, 11 & 12

**Management Goals:** Aspen that is mature will be harvested this decade. A lowland hardwood stand will be managed with the emphasis of converting this stand to white pine which is abundant in the understory. Upland spruce-fir stands that are mature will be harvested this decade. White birch, cedar, hemlock and pine will be left as a component of all treated stands when possible to maintain species diversity.

**Soil and Topography:** Topography is level to slightly rolling; Soils are poorly drained, somewhat poorly drained and well drained sands, and very poorly drained, extremely acid mucks and peats. Major soil series are Deford, Wainola, Rousseau, Dawson, Greenwood, and Kinross.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** This compartment is located within a belt of state forest land that is approximately 30 miles long by 8 miles wide in southeastern Menominee County (near the Lake Michigan shoreline between Escanaba and Menominee). Land ownership at the north and south ends of this compartment are heavily fractured with private ownership. This particular compartment is connected to state land to the north, and to a lesser degree to the west and south where private land is more common. Highway M-35 and private property are located at the east edge of the compartment. Land use is largely recreational on the private lands.

**Unique, Natural Features:** N/A

**Archeological, Historical, and Cultural Features:** N/A

**Special Management Designations or Considerations:** N/A

**Watershed and Fisheries Considerations:** The big Cedar River is located at the west edge of this compartment. Lake Michigan is within ½ mile of the east compartment boundary.

**Wildlife Habitat Considerations:** This compartment lies adjacent the Lake Michigan shoreline and is 56% cedar swamp. Most of the center of the compartment was designated a "Special Conservation Area" (SCA) during previous compartment reviews, but we are recommending removal of that status because the stands tend to be wet, poor quality cedar that do not demonstrate the mature forest conditions desired for an SCA. These cedar areas will be allowed to age and will provide some cover value for wildlife that use lowland conifer. The perimeter of the compartment contains upland forest of aspen and balsam poplar with most it being less than 20 years old. Several standard timber harvests are proposed for aspen, balsam poplar, fir, and lowland hardwood stands around the compartment edges.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between 10 and 50 feet. The Ordovician

Trenton Group underlies the glacial drift. The Trenton is quarried for stone west of Escanaba. This area has not been leased previously for metallic exploration. A gravel pit is located in Section 13 and potential appears to be good on the uplands. No economic oil and gas production has been found in the UP.

**Vehicle Access:** The southwest portion of the compartment can be accessed via a forest road that originates from County Road 551 (River Road). The northwest portion can be accessed from the “Go-C-Jo Road” which originates on the South Fox Road. The central portion of the compartment is entirely cedar swamp and is inaccessible by vehicle. Several forest roads originating from Hwy M-35 penetrate the east side of the compartment for short distances.

**Survey Needs:** There is no need to survey for management purposes.

**Recreational Facilities and Opportunities: Hunting and trapping.** No developed recreational facilities are present in the compartment; however several opportunities exist for a variety of outdoor recreation, such as hunting, trapping, hiking, and camping. A parcel that was donated to the State by the Nature Conservancy provides access to the Big Cedar River.

**Fire Protection:** This compartment consists mainly of lowland forest types that usually do not pose a high fire threat. An abundant water supply is located nearby. Access to most of this compartment is very good for fire suppression activities. There are a couple of “party spots” that have evidence of campfires along the Big Cedar River that could pose a wildfire threat at certain times of the year.

#### **Additional Compartment Information:**

- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
  - ◆ **Cover Type by Age Class**
  - ◆ **Cover Type by Management Objective**
  - ◆ **Compartment Volume Summary**
  - ◆ **Proposed Treatments – No Limiting Factors**
  - ◆ **Proposed Treatments – With Limiting Factors**
  
- **The following information is displayed, where pertinent, on the attached compartment maps:**
  - ◆ **Base feature information, stand numbers, cover types**
  - ◆ **Proposed treatments**
  - ◆ **Proposed road access system**
  - ◆ **Suggested potential old growth**

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Michigan Department of Natural Resources - Operations Inventory System  
Individual Compartment Report

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

MENOMINEE COUNTY

COMPARTMENT: 49

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not Coded	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159	All Aged	Total
Aspen		55	160		22	27			6										270
Black Spruce						5													5
Cedar							9		15	72			114	189	393				792
Grass	1																		1
Hemlock													4						4
LowInd Brush	16													10					26
LowInd Poplr		3	42		3	5								22					75
Mx Swmp Cnfr						32	2												34
Non Stocked	10																		10
Red Pine		6																	6
Spruce Fir					2	29			6										37
Swamp Hrdwds										21			5					41	67
Upland Hdwds									1									78	79
<b>Total</b>	<b>27</b>	<b>64</b>	<b>202</b>		<b>27</b>	<b>98</b>	<b>11</b>		<b>28</b>	<b>93</b>			<b>123</b>	<b>221</b>	<b>393</b>			<b>119</b>	<b>1406</b>

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Michigan Department of Natural Resources - Operations Inventory System  
Individual Compartment Report

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

MENOMINEE COUNTY

COMPARTMENT: 49

Table 3A

(acres shown in boxes)

MANAGEMENT OBJECTIVE TYPE

COVER TYPE	A	S	V	C	G	H	J	I	L	P	N	Q	X	O	B	R	K	Y	F	E	T	D	U	M	Z	W	Total
A Aspen	270																										270
S Black Spruce		5																									5
C Cedar				792																							792
G Grass					1																						1
H Hemlock						4																					4
L LowInd Brush									26																		26
P LowInd Poplr										53									22								75
Q Mx Swmp Cnfr												34															34
X Non Stocked													10														10
R Red Pine															6												6
F Spruce Fir																			37								37
E Swamp Hrdwds																			67								67
M Upland Hdwds																								79			79
<b>Total</b>	270	5		792	1	4			26	53		34	10		6			59	67					79			1406

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

MENOMINEE COUNTY

COMPARTMENT: **49**

**Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS**

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	4874 Cds	Hardwood	1160 Cds
Hardwood	204 Mbf	Hardwood	27 Mbf
Softwood	19212 Cds	Softwood	874 Cds
Softwood	104 Mbf	Sum CutVol	2088 Cds
Sum TotVol	24702 Cds		
<b>Total Cmpnt Acres</b>		Acres Proposed For Cut.....	109
1406			

**ESCANABA FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 49**

**Entry Year: 2011**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
<b>1</b>	<b>A6</b>	9	46	50	aspen (upland)	immature	final harvest	3	natural regeneration	
comnts Fmd : General Comment=> Aspen stand with balm, spruce and fir, and some cedar to the east with an E/L pocket. This stand has areas of larger and smaller diameter. Include this as a 40 year old stand for treatment. Treatment=> Clearcut this stand leaving a retention patch where there is cedar and E/L type. Do not cut the submerchantable spruce/fir. Long term MO=> Regeneration of aspen and conifer species. Retention=> Leave a retention patch reserve area that is 3-10% of the sale.										
<b>35</b>	<b>A6</b>	6	72	50	aspen (upland)	mature	final harvest	1		
comnts Fmd : General Comments=> This stand is an A/F 6 stand. Older and more mature than stand 88. Decent F understory now. Treatment=> Harvest all species with the exception of cedar. Long term MO=> Expect aspen and balm regeneration here and F as well. Retention=> Leaving all cedar.										
<b>63</b>	<b>E6</b>	21	79	50	swamp hardwoods	immature	shelterwood-prep	1		
comnts Fmd : Long term MO= W, heavy to Wpine in understory. Create some canopy gaps and allow established pine to grow. Mark it to retain 40-50 BA.										
<b>85</b>	<b>F6</b>	29	46	50	spruce-fir (uplands- including upland black spruce)	low quality	final harvest	1		
comnts Fmd : (2009)- Lost the balsam to the wind. Poor quality hardwoods, aspen, and balm. Stay out of the drainages. Leaving all cedar and hemlock throughout. Previous OI comments=> This stand was part of a forty aquired in 1999. Mixed stand of low quality hardwoods and balsam. Lots of balsam and other conifer in the understory.										
<b>88</b>	<b>A6</b>	16	39	55	aspen (upland)	immature	final harvest	3	natural regeneration	
comnts Fmd : General comments=> Species include red maple, balm, ash, cedar, spruce and fir, aspen. This is a two aged stand that is very patchy. There are pockets with smaller and unmerchantable trees. This does not have to be harvested now but harvest with the stands to the east. Treatment=> Clearcut this stand and leave out low ash areas with no merchantable trees. Overall sale acres may be from 50-80 percent of total stand acres. Long term MO=> Regenerate the aspen and F type with an acceptable regeneration mix of other upland species. Retention=> Leave out lower ash swales with no merchantable trees and leave the cedar.										

**Total Acres..... 81**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
20	F6	6	72	60	spruce-fir (uplands-including upland black spruce)	mature	shelterwood-prep	2		

TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage  
Inadequate volume due to small acreage

comnts Fmd : General comments => Birch ridge with some big Aspen mixed in. Very old looking. Aspen has conks woodpecker holes. Fairly heavy understory of balsam and spruce saps (1" 4-8' tall). Treatment=> Harvest all the aspen,birch, and spruce fir except may leave some spruce/fir seed trees. Leave the maple and cedar for shade of the F understory. Harvest with stands to the west and this would have to be a winter cut to come this way. Long term MO=> Regeneration of F and acceptable regeneration mix of A & B. Retention=> Leaving the cedar and maple.

29	F6	22	120	30	spruce-fir (uplands-including upland black spruce)	mature	final harvest	2		
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TREATMENT LIMITING FACTORS: Inadequate volume due to low stocking/small diameter/etc.  
Inadequate volume due to low stocking/small diameter/etc.  
Adjacent landowner denies access

comnts Fmd : (2009- ) Try to harvest again. The old paint lines are still visible. Leave a few legacy patches (1-2 ac) and harvest everything else. The areas where blowdown occurred are filling in with balm. Previous OI comments=> This sale was re-advertised in 2001 as the M-35 Do Over sale, Best Equipment got the sale, but, defaulted on it. He did not cut it during the three year period so we took it back. This sale would need to be done all over again. Not worth it at this point. We will hold it until next rotation, if someone inquires about it we could set it up.

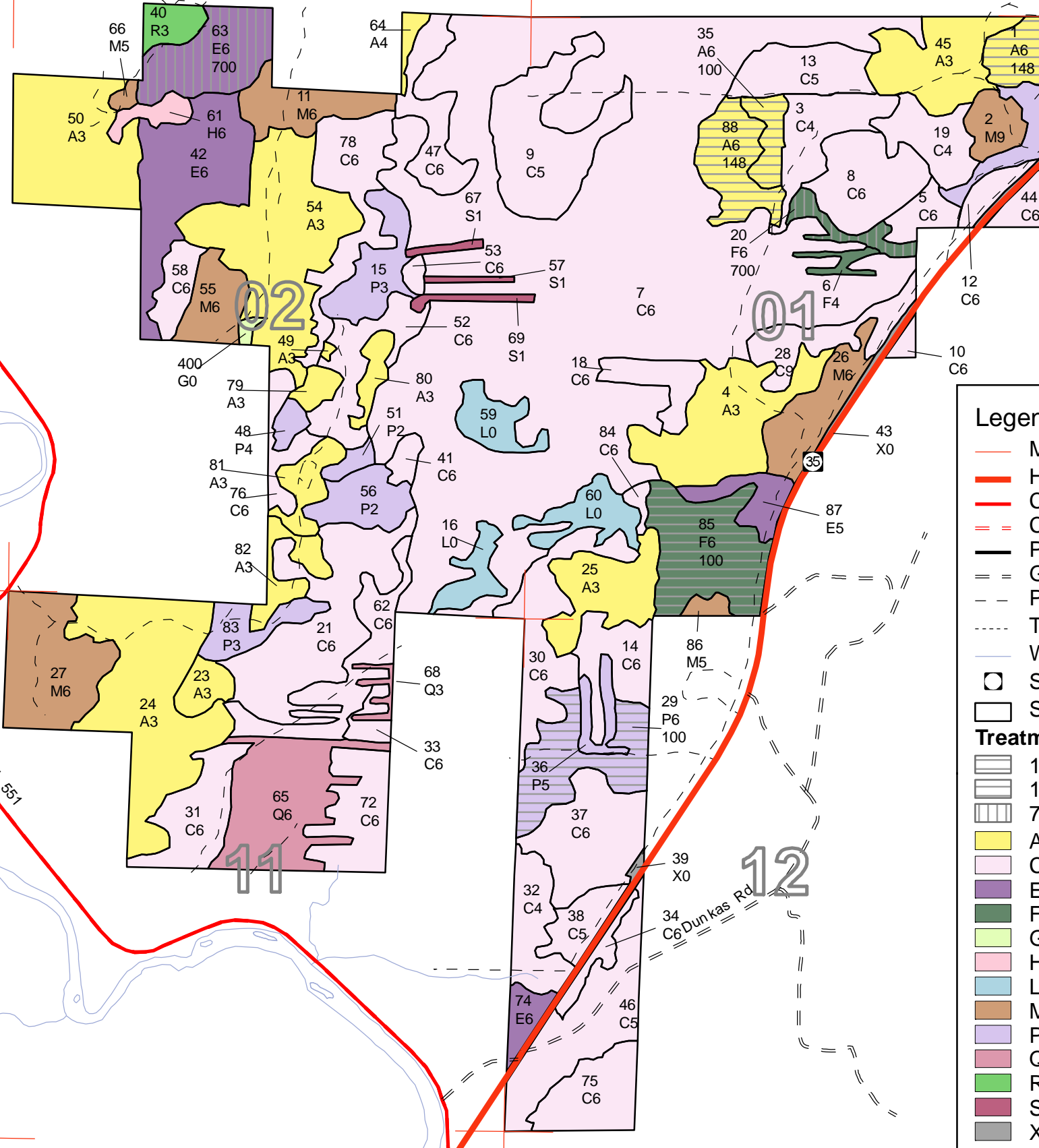
**Total Acres..... 28**

Compartment 49  
 T35N, R25W, Sec. 1, 2, 11, 12  
 County: Menominee  
 Unit: Escanaba  
 YOE: 2011  
 Acres: 1,406 GIS Calculated  
 Stand Examiner: Dan Racine  
 Map Revised: 8/05/2009  
 Map Phase: Pre-Review

# Covertypes & Treatment Map

02	01
11	12

N

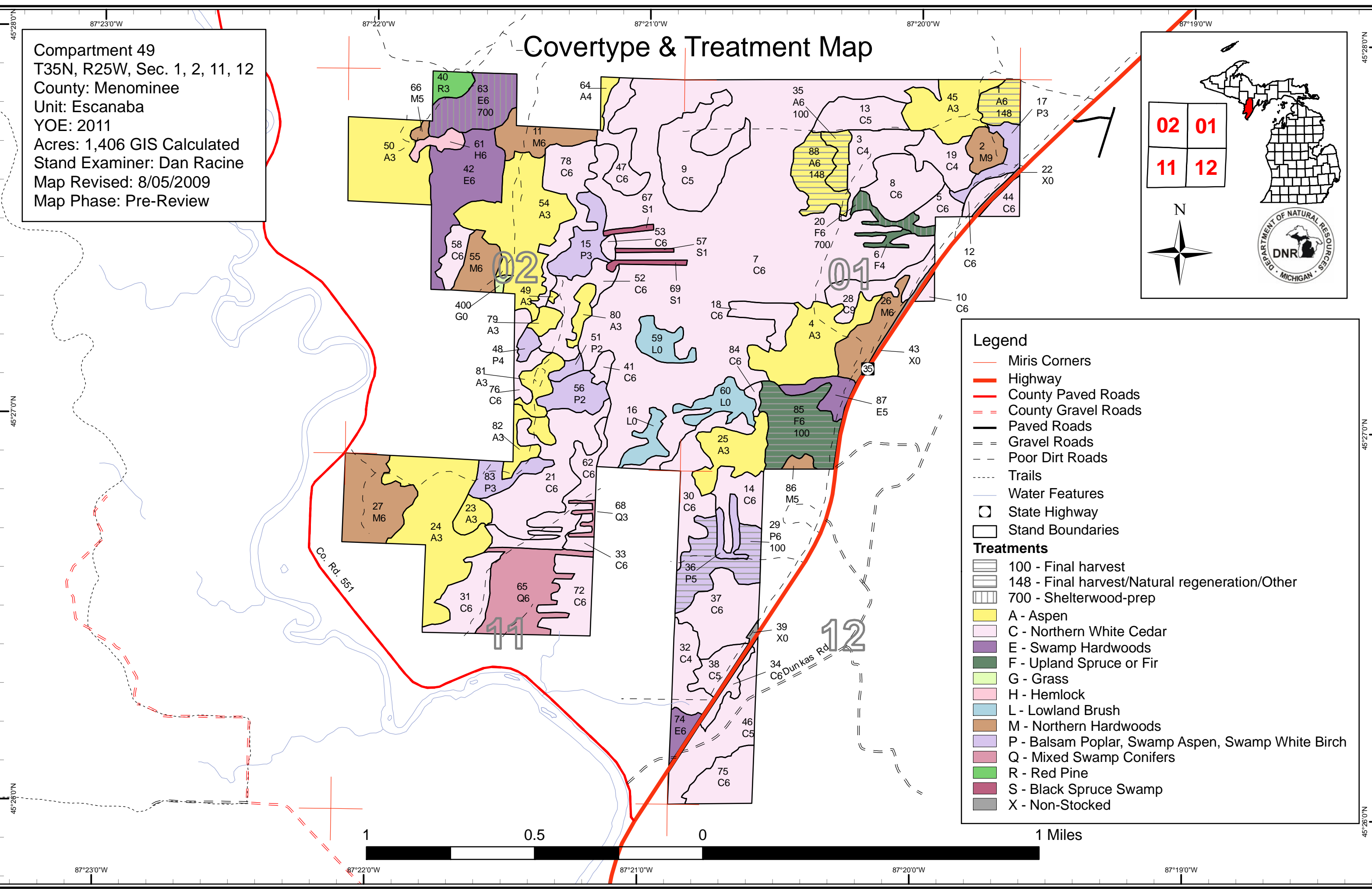


### Legend

- Miris Corners
- Highway
- County Paved Roads
- County Gravel Roads
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Trails
- Water Features
- State Highway
- Stand Boundaries

### Treatments

- 100 - Final harvest
- 148 - Final harvest/Natural regeneration/Other
- 700 - Shelterwood-prep
- A - Aspen
- C - Northern White Cedar
- E - Swamp Hardwoods
- F - Upland Spruce or Fir
- G - Grass
- H - Hemlock
- L - Lowland Brush
- M - Northern Hardwoods
- P - Balsam Poplar, Swamp Aspen, Swamp White Birch
- Q - Mixed Swamp Conifers
- R - Red Pine
- S - Black Spruce Swamp
- X - Non-Stocked



# Stand Boundary Map

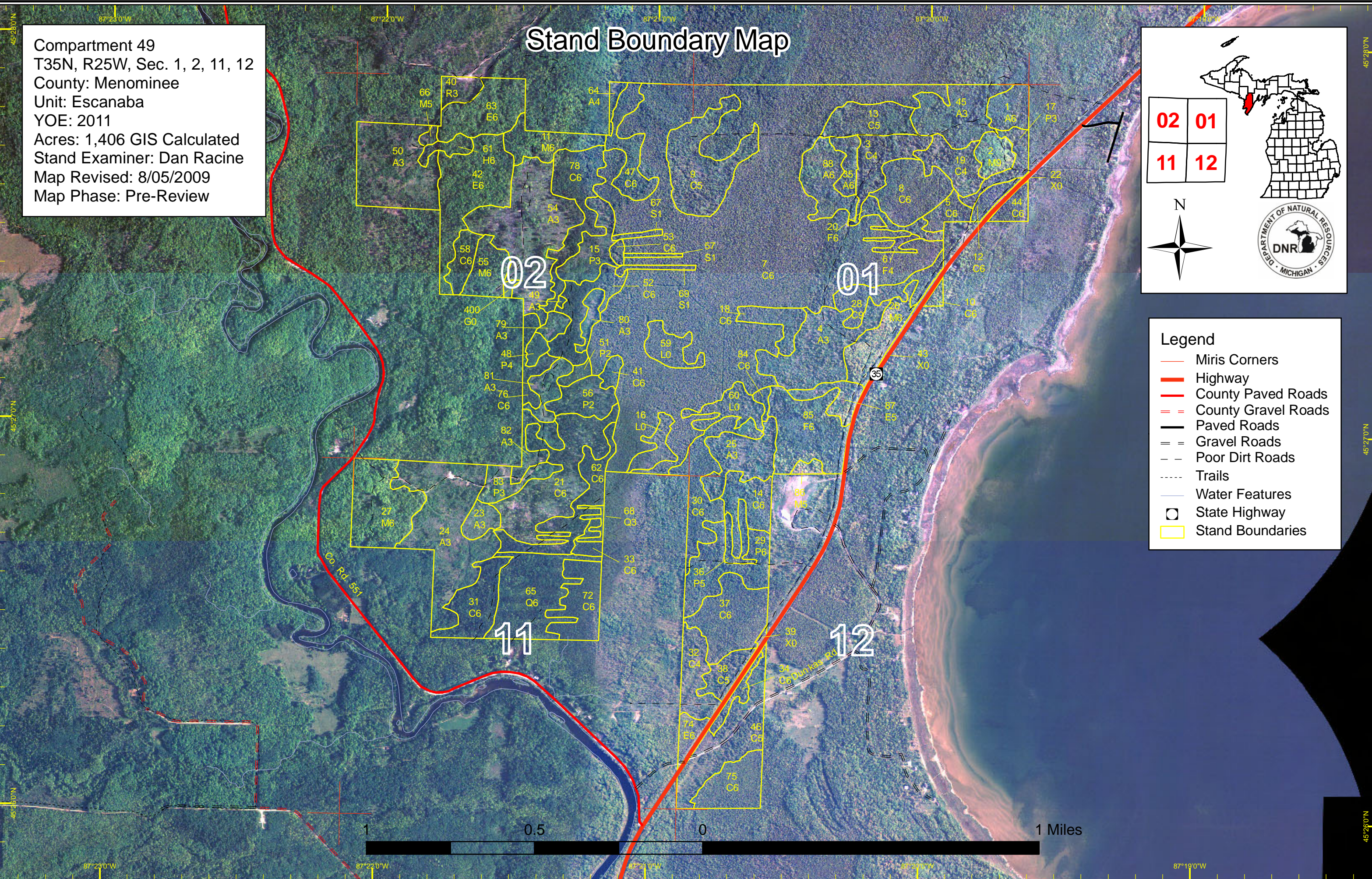
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02	01
11	12

N

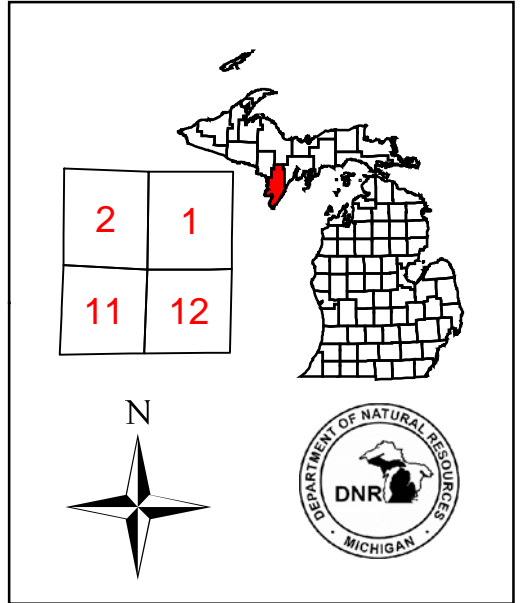
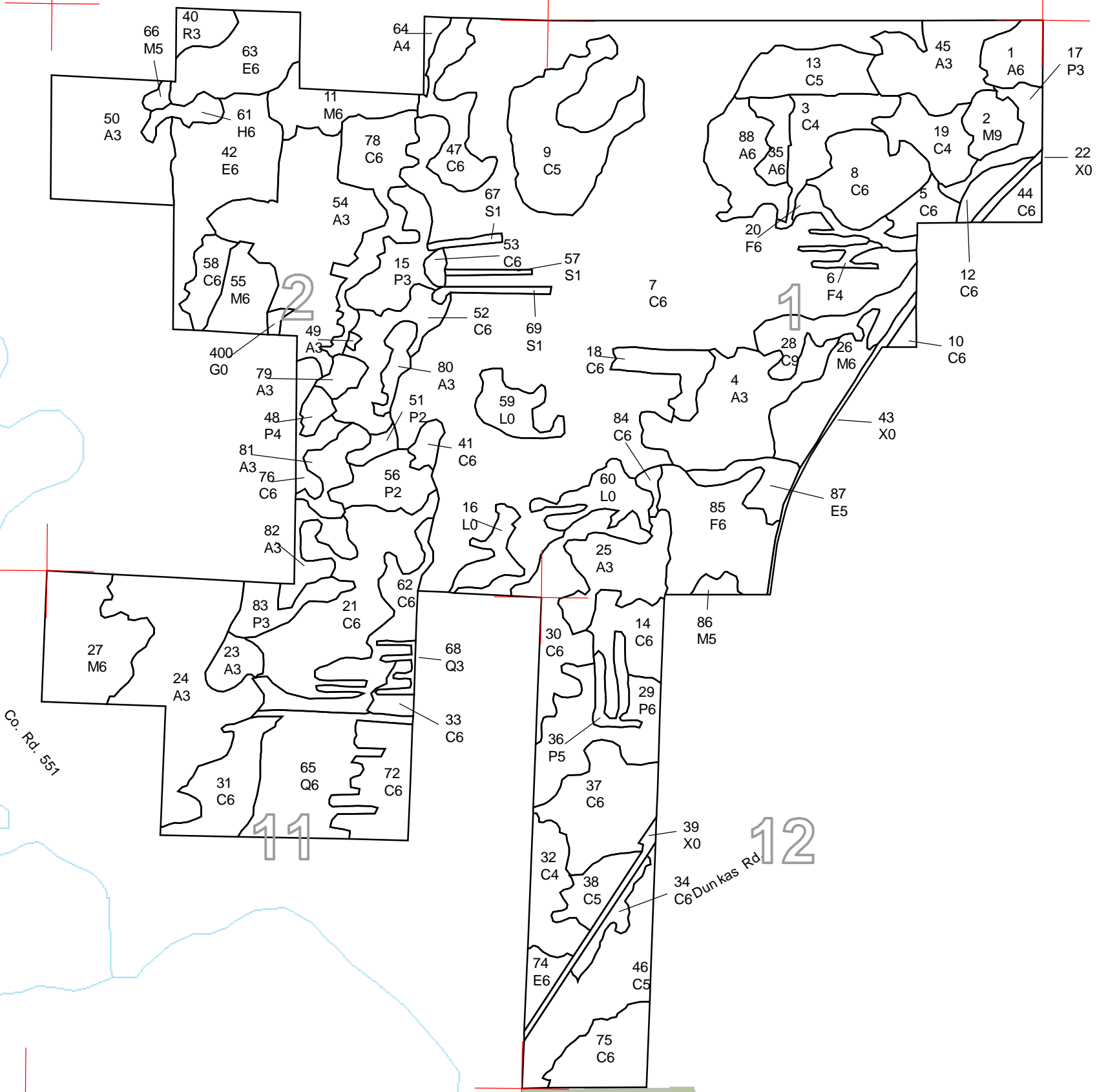
**Legend**

- Miris Corners
- Highway
- County Paved Roads
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- Stand Boundaries



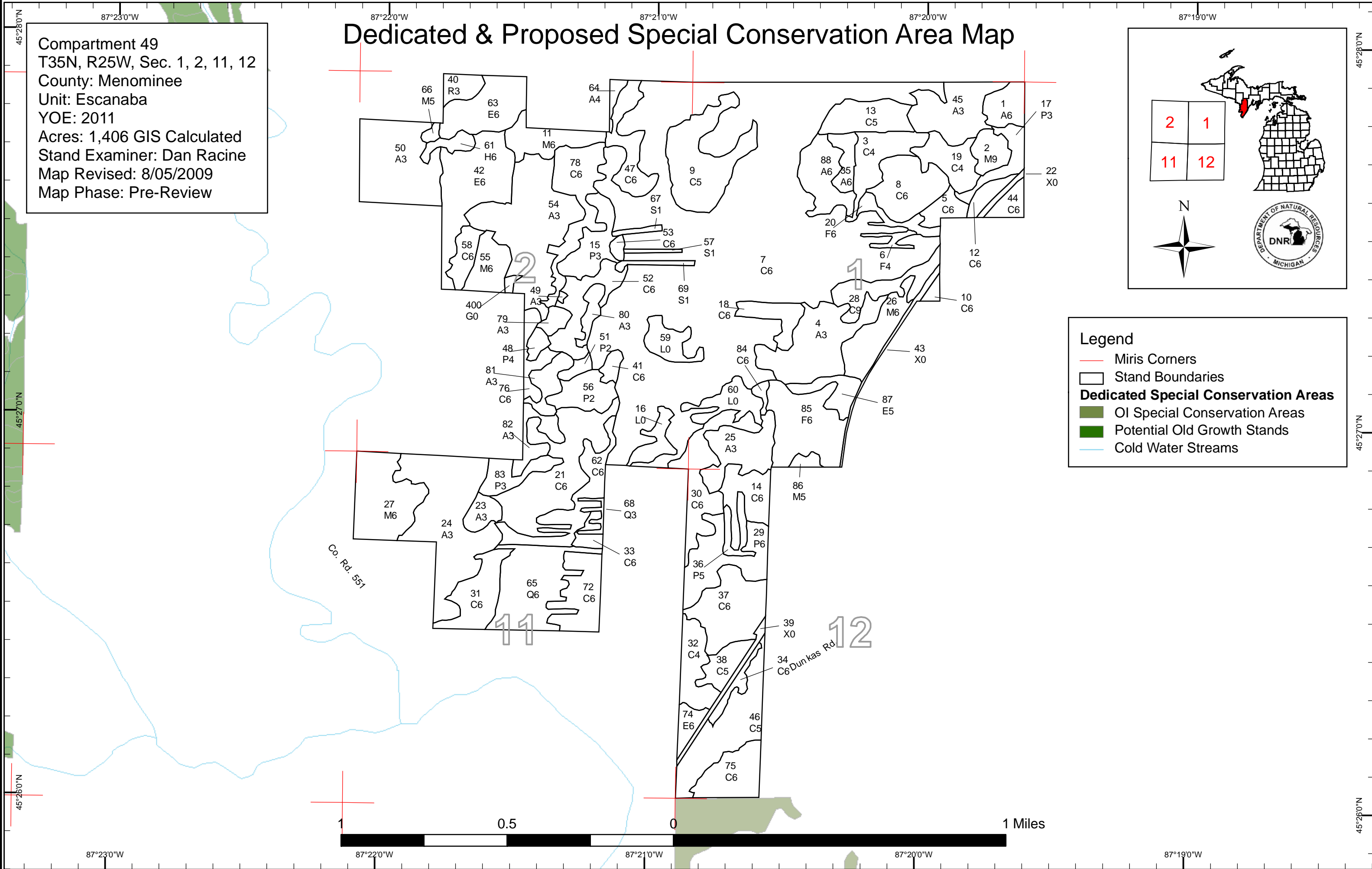
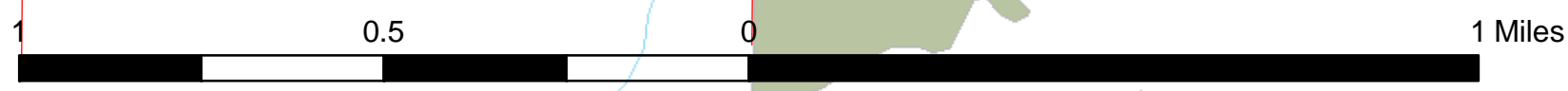
# Dedicated & Proposed Special Conservation Area Map

Compartment 49  
 T35N, R25W, Sec. 1, 2, 11, 12  
 County: Menominee  
 Unit: Escanaba  
 YOE: 2011  
 Acres: 1,406 GIS Calculated  
 Stand Examiner: Dan Racine  
 Map Revised: 8/05/2009  
 Map Phase: Pre-Review



**Legend**

- Miris Corners
- Stand Boundaries
- Dedicated Special Conservation Areas**
- OI Special Conservation Areas
- Potential Old Growth Stands
- Cold Water Streams





## 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	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
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	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.