



**Gwinn Forest Management Unit  
Compartment Review Presentation  
Compartment 291      Entry Year: 2011  
Compartment Acreage: 1247    County: Marquette**

---

**Revision Date:** 8/25/2009

**Stand Examiner:** Dean Wilson

**Legal Description:** T47N-R23W, sections 34, 35.

**RMU (if applicable):**

**Management Goals:** Habitat\Vegetation.

**Soil and Topography:** Soils consist of fine sands to loamy sands that range in drainage, and various organics in the lowland areas.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** This compartment is part of a large block of State ownership. For this tract there are a few small non-industrial private ownerships along its borders. Forest production and passive recreation are the primary land uses.

**Unique, Natural Features:** Contains areas of vernal forest with many intermittent streams. The Sand River and its tributaries flow through this compartment.

**Archeological, Historical, and Cultural Features:** None noted.

**Special Management Designations or Considerations:** Watershed protection. Maintenance of raptor habitat. Maintenance of diversity in treated northern hardwood stands. Maintenance of the early successional forest species where they occur.

**Watershed and Fisheries Considerations:** Protecting the Sand River and its tributaries.

**Wildlife Habitat Considerations:** Many of the stands bordering rivers are classified as Special Conservation Areas (SCA) to protect riparian and wildlife corridors, and provide old growth forests for wildlife and aesthetics. Northern hardwood stands that are proposed for selective harvests are also being prescribed for underplanting hemlock and/or white pine to restore historic diversity to those sites. Important wildlife species found in this compartment are deer, grouse, bear, and various furbearers and woodland birds.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of thin to discontinuous glacial till, (? end moraine with coarse-texture) over bedrock. The glacial drift thickness varies between 10 and 50 feet. The Precambrian Jacobsville Sandstone subcrops below the glacial drift. This rock was previously used as a building stone. A gravel pit is located in Section 35 and there is potential. Abandoned iron mines are located sixteen miles to the southwest. This Compartment has never been previously leased for metallic exploration. There is no economic oil and gas production in the UP.

**Vehicle Access:** Is good to the compartment but is limited internally.

**Survey Needs:** All section corners need to be established.

**Recreational Facilities and Opportunities:** Primarily passive recreation.

**Fire Protection:** Low.

**Additional Compartment Information:** Contains large contiguous stands of northern hardwoods.

- **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**

8/31/2009 2:52:53 PM

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

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: 291

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		99	68	166	44														377
Black Spruce																		8	8
Grass	1																		1
Hemlock																		63	63
Lowlnd Brush	13																		13
Mx Swmp Cnfr																		105	105
Non Stocked	2																		2
Swamp Hrdwds																		131	131
Upland Hdwds																		547	547
Total	16	99	68	166	44													854	1247

8/31/2009 2:52:55 PM

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

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: 291

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	377																										377
S Black Spruce		8																									8
G Grass					1																						1
H Hemlock						63																					63
L Lowlnd Brush									13																		13
Q Mx Swmp Cnfr												105															105
X Non Stocked													2														2
E Swamp Hrdwds																			131								131
M Upland Hdwds																								547			547
<b>Total</b>	<b>377</b>	<b>8</b>			<b>1</b>	<b>63</b>			<b>13</b>			<b>105</b>	<b>2</b>						<b>131</b>					<b>547</b>			<b>1247</b>

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: **291**

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	15582 Cds	Hardwood	2563 Cds
Hardwood	428 Mbf	Hardwood	36 Mbf
Softwood	2226 Cds	Sum CutVol	2635 Cds
Softwood	1030 Mbf		
Sum TotVol	20724 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	
1247		263	

**GWINN FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 291**    **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>M6</b>	22		58	northern hardwood	unevenaged	selection	1		
comnts Fmd : Buffer the intermittent stream.										
Wld : Will underplant hemlock and/or white pine post harvest.										
<b>4</b>	<b>M6</b>	176		60	northern hardwood	unevenaged	selection	1		
comnts Fmd : Variable stand with areas heavy to hemlock. Contains two minor Q inclusions which will be retained. Portions of stand especially on east side should be patch cut (1 to 5 acre group selections).										
Wld : Will underplant hemlock and/or white pine post harvest. Type out the few lowland conifer inclusions and retain. Cut no hemlock or white pine.										
<b>7</b>	<b>M6</b>	60		60	northern hardwood	unevenaged	selection	1		
comnts Fmd : WAS THINNED IN 1975.										
Wld : Will under plant hemlock and/or white pine post harvest. Found no hemlock in stand, only stumps of hemlock that were probably cut a century ago. Underplanting efforts would restore diversity to this site. Kotar Community Type is "ATM". Cut no hemlock or white pine if it exists in stand.										
<b>13</b>	<b>M6</b>	2		58	northern hardwood	unevenaged	selection	1		
Wld : Cut no hemlock, white pine, or cedar if it exists in stand.										
<b>14</b>	<b>M6</b>	3		58	northern hardwood	unevenaged	selection	1		
comnts Fmd : Was a leave patch as part of a timber sale.										
Wld : Cut no hemlock, white pine, or cedar if it exists in stand.										
<b>Total Acres.....</b>		<b>263</b>								

**Proposed Treatments  
With Limiting Factors**

**Compartment: 291**

**Entry Year: 2011**

---

<b>Stand</b>	<b>Cover Type</b>	<b>Acres</b>	<b>Age</b>	<b>Site Index</b>	<b>Mgt Obj</b>	<b>Condition</b>	<b>Method Cut</b>	<b>Harvest Priority</b>	<b>Cultural Need</b>	<b>FD Status</b>
--------------	-----------------------	--------------	------------	-----------------------	--------------------	------------------	-----------------------	-----------------------------	--------------------------	----------------------

---

TREATMENT LIMITING FACTORS:

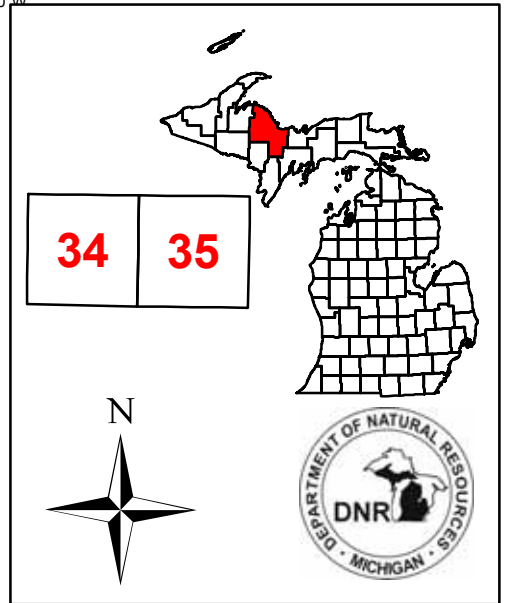
---

**Total Acres..... 0**

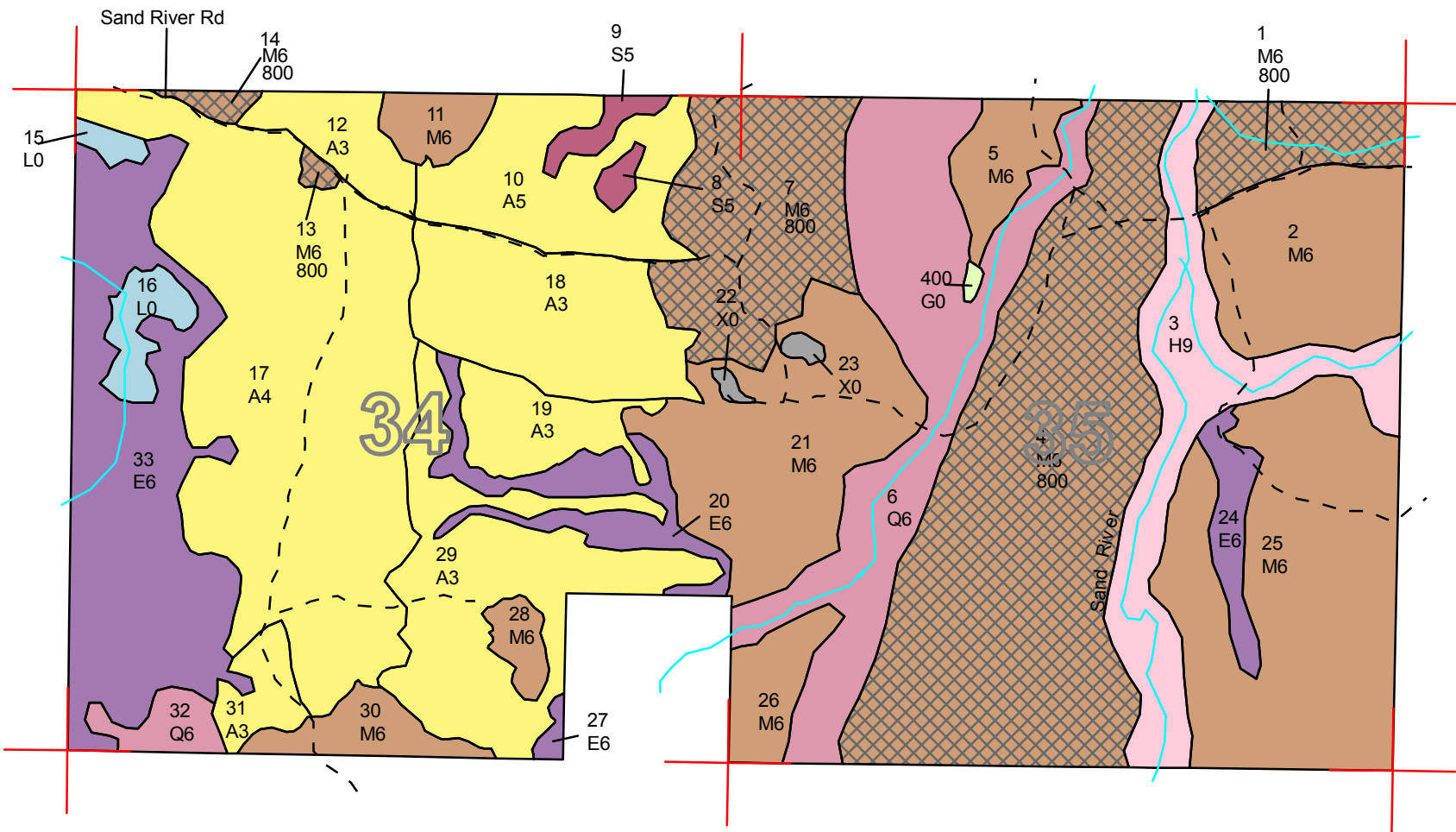
87°12'0"W 87°11'0"W 87°10'0"W 87°9'0"W 87°8'0"W

# Covertypes & Treatment Map

Compartment 291  
T47N, R23W, Sec. 34, 35  
County: Marquette  
Unit: Gwinn  
YOE: 2011  
Acres: 1,247 GIS Calculated  
Stand Examiner: Dean Wilson  
Map Revised: 6/11/2009  
Map Phase: Pre-review



- Legend**
- Miris Corners
  - - Poor Dirt Roads
  - Water Features
  - Stand Boundary
  - ▨ 800 - Selection
  - A - Aspen
  - E - Swamp Hardwoods
  - G - Grass
  - H - Hemlock
  - L - Lowland Brush
  - M - Northern Hardwoods
  - Q - Mixed Swamp Conifers
  - S - Black Spruce Swamp
  - X - Non-Stocked



87°12'0"W 87°11'0"W 87°10'0"W 87°9'0"W 87°8'0"W

46°26'0"N

46°25'0"N

46°26'0"N

46°25'0"N

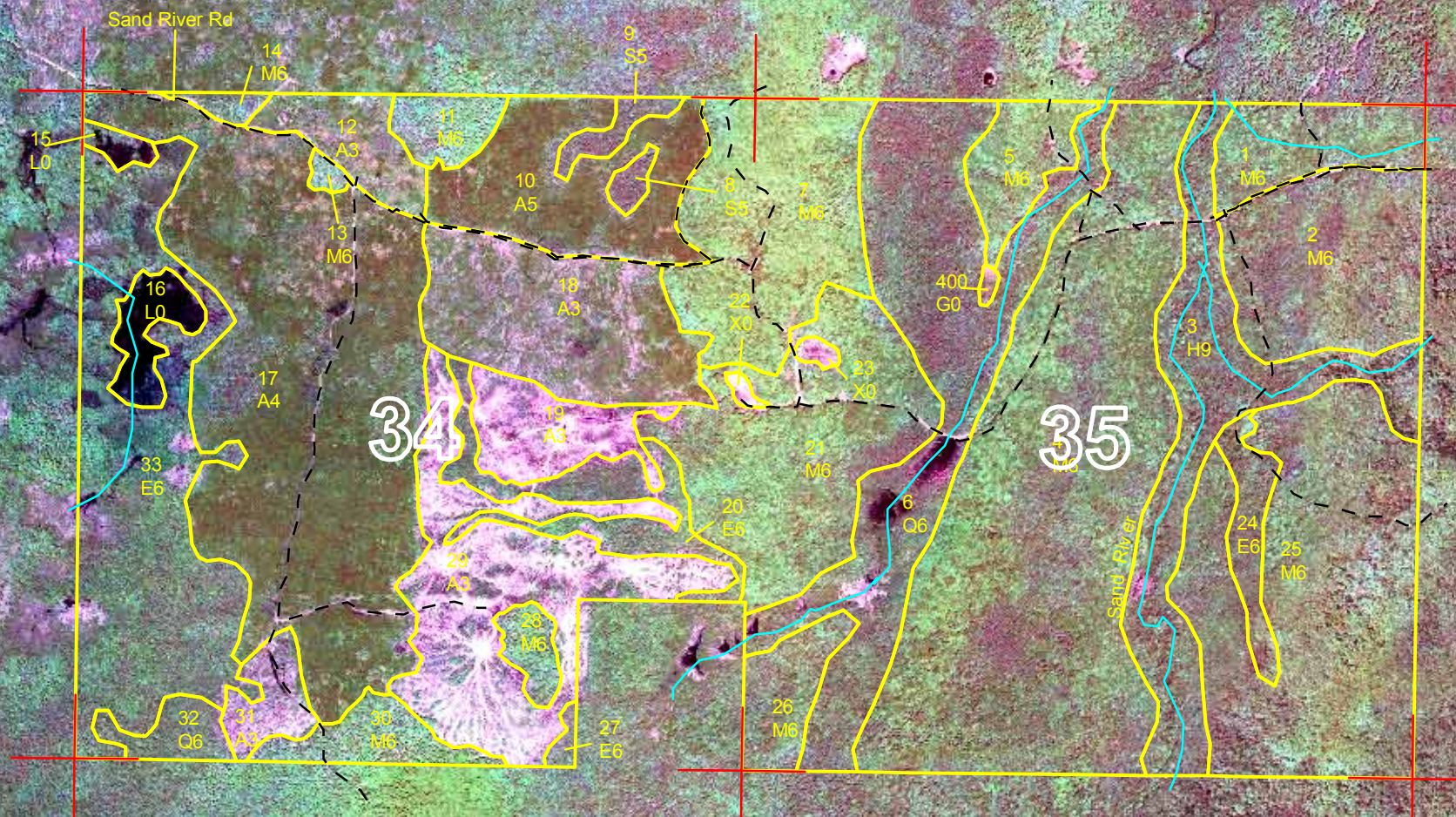


# Stand Boundary Map

Compartment 291  
T47N, R23W, Sec. 34, 35  
County: Marquette  
Unit: Gwinn  
YOE: 2011  
Acres: 1,247 GIS Calculated  
Stand Examiner: Dean Wilson  
Map Revised: 6/11/2009  
Map Phase: Pre-review

- Legend
- Miris Corners
  - Poor Dirt Roads
  - Water Features
  - Stand Boundary

34 35





# Dedicated & Proposed Special Conservation Area Map

Compartment 291  
T47N, R23W, Sec. 34, 35  
County: Marquette  
Unit: Gwinn  
YOE: 2011  
Acres: 1,247 GIS Calculated  
Stand Examiner: Dean Wilson  
Map Revised: 6/11/2009  
Map Phase: Pre-review

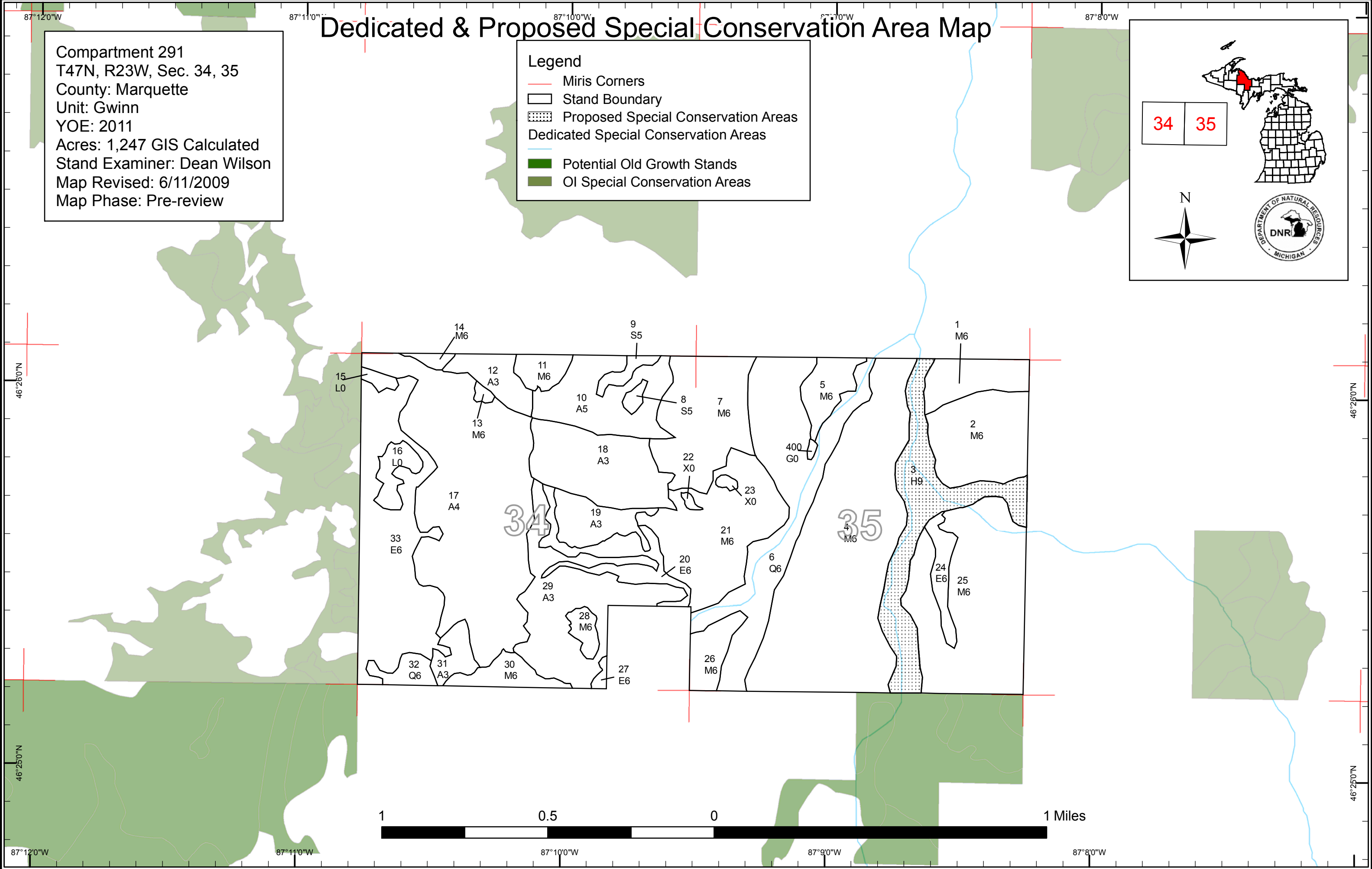
**Legend**

- Miris Corners
- Stand Boundary
- Proposed Special Conservation Areas
- Dedicated Special Conservation Areas
- Potential Old Growth Stands
- OI Special Conservation Areas

34 35

N

DEPARTMENT OF NATURAL RESOURCES  
DNR  
MICHIGAN





## 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	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.