



Gwinn Forest Management Unit
Compartment Review Presentation
Compartment 211 **Entry Year: 2009**
Compartment Acreage: 584 **County: Marquette**

Revision Date: March 24, 2009

Stand Examiner: Thomas Seablom

Legal Description: T48N R28W Sec. 31, T48N R29W Sec. 26 & 36

RMU (if applicable): None

Management Goals: Management goals range from maintaining timber production and wildlife habitat to protecting water quality. Timber types under active management within this compartment will continue to be managed on an even-aged basis mainly for fiber production. Wildlife habitat will continue to be maintained as is within the current covertypes.

Soil and Topography: The majority of this compartment is relatively flat with major relief occurring along the northern edge. Soil composition ranges from Minocqua muck to Peshekee and Keewaydin-Michigamme Rock outcrop complex. Drainages are composed of Minocqua muck, Greenwood-Dawson soils and the Minocqua-Channing complex. The upland soils in the outwash plain are Pence fine sandy loam and Farquar gravelly sandy loam. The remainder of the upland is either Peshekee or Keewaydin-Michigamme rock outcrop complex.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Ownership in this vicinity is fairly fragmented. Historically land has been held by timber companies with scattered State parcels and some private individual holdings. Recently timber companies have begun to divest their holdings which has led to an increase in the number of private individual parcels. Development is minimal with the majority of it being in camps. The towns of Champion and Humboldt reside to the south and west of this compartment. Land use is primarily timber production and recreation.

Unique, Natural Features: None

Archeological, Historical, and Cultural Features: Old abandoned railroad grades and mine pits do exist in this compartment. The mine pits have been filled in and part of an old railroad grade is currently used as snowmobile trail #8.

Special Management Designations or Considerations: The east half of the northern tier of this compartment is currently listed as a Special Conservation Area (SCA) Potential Old Growth (POG). The western portion is being proposed for listing under SCA-POG as it is relatively inaccessible.

Watershed and Fisheries Considerations: Second River, a tributary to the Middle Branch Escanaba River, flows through a portion of this compartment. This is a cold water tributary and needs to be protected.

Wildlife Habitat Considerations: Text

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of thin to discontinuous glacial outwash sand & gravel over bedrock. There is insufficient data to determine the glacial drift thickness. The Precambrian Archean Granite/Gneiss, Siamo Slate, Ajibik Quartzite and Michigamme Formation subcrop below the glacial drift. Some of these rocks could be used as a dimension stone. A gravel pit is located in Section 36, and there is some potential. The abandoned Bessie Mine is located in Section 35. This compartment has not been leased for metallic exploration recently, but State land five miles to the west was. There is no economic oil and gas production in the UP

Vehicle Access: Access to the majority of this compartment is good. Co. Rd. AAD and trail #8 are the primary roads to this compartment. Secondary roads exists providing access within the compartment.

Survey Needs: No needs at this time.

Recreational Facilities and Opportunities: No recreation facilities exist and there are no opportunities.

Fire Protection: This compartment occurs within an outwash plain running east-west that is predominately spruce-fir, jack pine and planted red pine. Quality roads exist providing good access for fire protection. Sufficient water sources are also available. The northern tier of the compartment is very inaccessible for mechanized fire protection. Hand tools would be the primary method used to combat a fire.

Additional Compartment Information: None

- **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

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: 211

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not Coded	STAND AGE CLASS																All Aged	Total
		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		
Aspen		16	7						17										40
Black Spruce									3	9									12
Bog or Marsh	24																		24
Grass	11																		11
Jack Pine		70	46			6													122
Lowlnd Brush	79																		79
Oak									7										7
Paper Birch									18									15	33
Red Pine																		31	31
Spruce Fir		53	41				58		3										155
Swamp Hrdwds																		30	30
Tamarack			5						16										21
Upland Hdwds																		6	6
White Pine																		13	13
Total	114	139	99			6	58		64	9								95	584

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

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: 211

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	40																										40
S Black Spruce		12																									12
V Bog or Marsh			24																								24
G Grass					11																						11
J Jack Pine							122																				122
L Lowlnd Brush									79																		79
O Oak														7													7
B Paper Birch															33												33
R Red Pine																31											31
F Spruce Fir							28												127								155
E Swamp Hrdwds																				30							30
T Tamarack																					21						21
M Upland Hdwds																								6			6
W White Pine																										13	13
Total	40	12	24		11		150		79					7	33	31			127	30	21				6	13	584

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: **211**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

TOTAL VOLUME		CUT VOLUME	
Hardwood	1150 Cds	Hardwood	22 Cds
Hardwood	12 Mbf	Softwood	1625 Cds
Softwood	2886 Cds	Sum CutVol	1647 Cds
Softwood	183 Mbf		
Sum TotVol	4426 Cds		
Total Cmpnt Acres		Acres Proposed For Cut.....	
584		73	

GWINN FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 211 Entry Year: 2011

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
19	T6	16	77	59	tamarack	mature	seed tree	2			
<p>comnts Fmd : A seed tree harvest is being prescribed for this stand. Leave approx. 20 sq. ft./acre in tamarack setup as small clumps/patches of trees, trying to integrate them with residual cedar as no cedar will be cut. All other trees regardless of merchantability will be cut, except any white pine if present. Cutting will be restricted to winter.</p>											
22	S6	9	79	45	black spruce-swamp	mature	seed tree	2			
<p>comnts Fmd : A seed tree harvest is being prescribed for this stand leaving approx. 20 sq. ft/acre of spruce set up as small clumps/patches. No cedar or white pine is to be cut. All other trees are to be cut regardless of merchantability. Cutting will be restricted to winter harvesting.</p>											
33	F6	28	52	45	jack pine	mature	final harvest	1	direct seeding		
<p>comnts Fmd : This stand is being prescribed for clearcutting. All trees, except white pine and some spruce trees on the south edge, will be cut regardless of merchantability. Upon completion of harvesting, site will be trenched and seeded with jack pine. Leaving some spruce along the south edge will allow for a seed source to regenerate some spruce in the stand.</p> <p>Wld : Recommend no herbicide when restocking occurs in order to promote fir and spruce components of jack pine stand and maintain diversity for wildlife.</p>											
38	F6	20	52	45	spruce-fir (uplands- including upland black spruce)	mature	seed tree	1			
<p>comnts Fmd : As per a field visit on 8/19/2009, it was decided to break this stand away from stand 33. This stand is being prescribed for a seed tree/shelterwood cut and managing for a spruce-fir mix. Any red or white pine that may be in this stand is not to be cut.</p> <p>Wld : This stand was delineated out of stand #33 in order to maintain as a fir/spruce stand rather than convert to jack pine. Water table is closer to surface of this stand and community is conducive to a diverse mix of conifer. In order to maintain diversity, it was decided during a field visit to treat as a shelterwood/seed tree harvest rather than clearcut.</p>											
Total Acres.....		73									

**Proposed Treatments
With Limiting Factors**

Compartment: 211

Entry Year: 2011

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Covertypes & Treatment Map

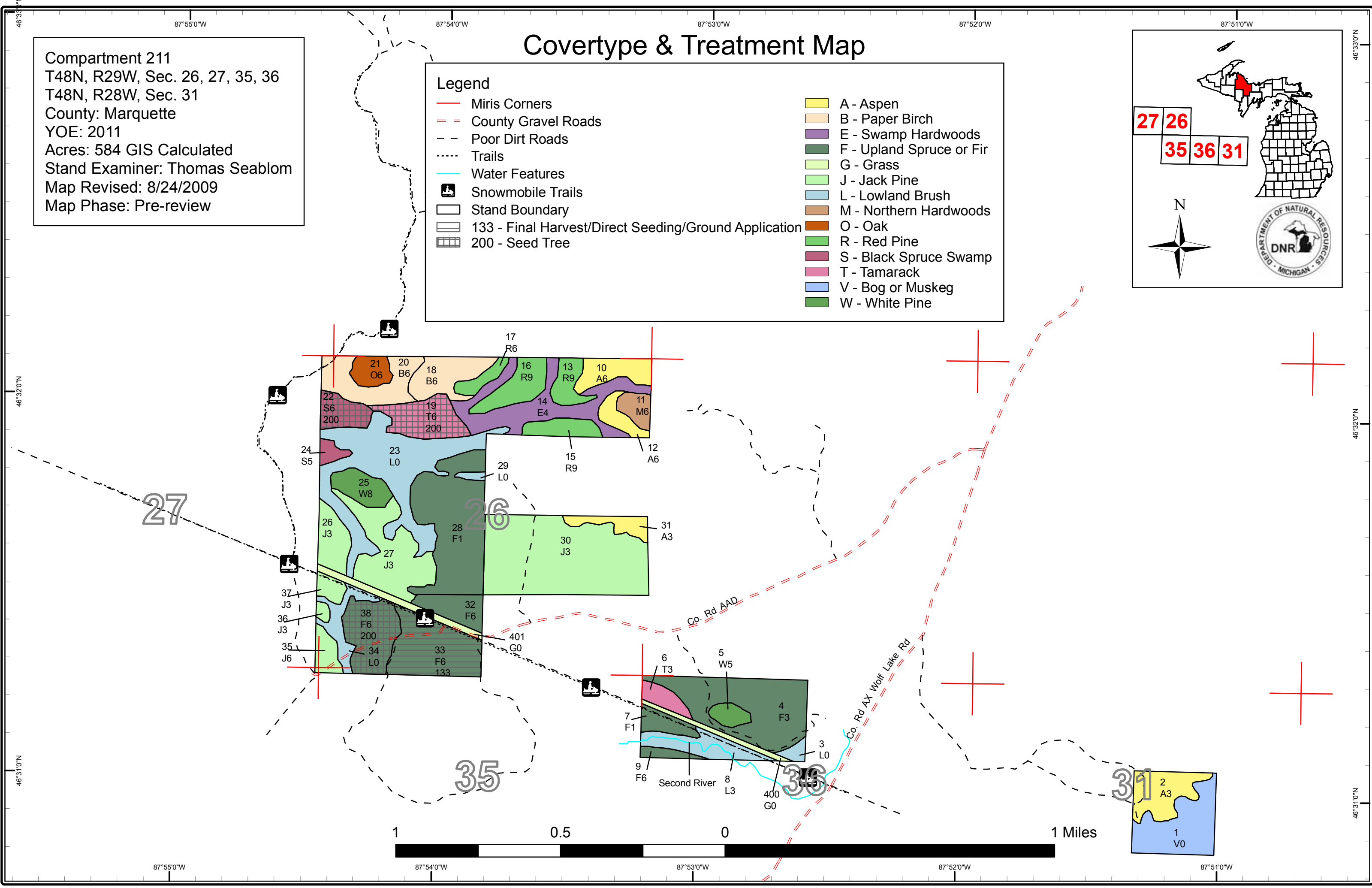
Legend

- Miris Corners
- - - County Gravel Roads
- - - Poor Dirt Roads
- - - Trails
- Water Features
- Snowmobile Trails
- Stand Boundary
- 133 - Final Harvest/Direct Seeding/Ground Application
- 200 - Seed Tree
- A - Aspen
- B - Paper Birch
- E - Swamp Hardwoods
- F - Upland Spruce or Fir
- G - Grass
- J - Jack Pine
- L - Lowland Brush
- M - Northern Hardwoods
- O - Oak
- R - Red Pine
- S - Black Spruce Swamp
- T - Tamarack
- V - Bog or Muskeg
- W - White Pine

Compartment 211
 T48N, R29W, Sec. 26, 27, 35, 36
 T48N, R28W, Sec. 31
 County: Marquette
 YOE: 2011
 Acres: 584 GIS Calculated
 Stand Examiner: Thomas Seablom
 Map Revised: 8/24/2009
 Map Phase: Pre-review

27 26
 35 36 31

N



Stand Boundary Map

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T48N, R29W, Sec. 26, 27, 35, 36
T48N, R28W, Sec. 31
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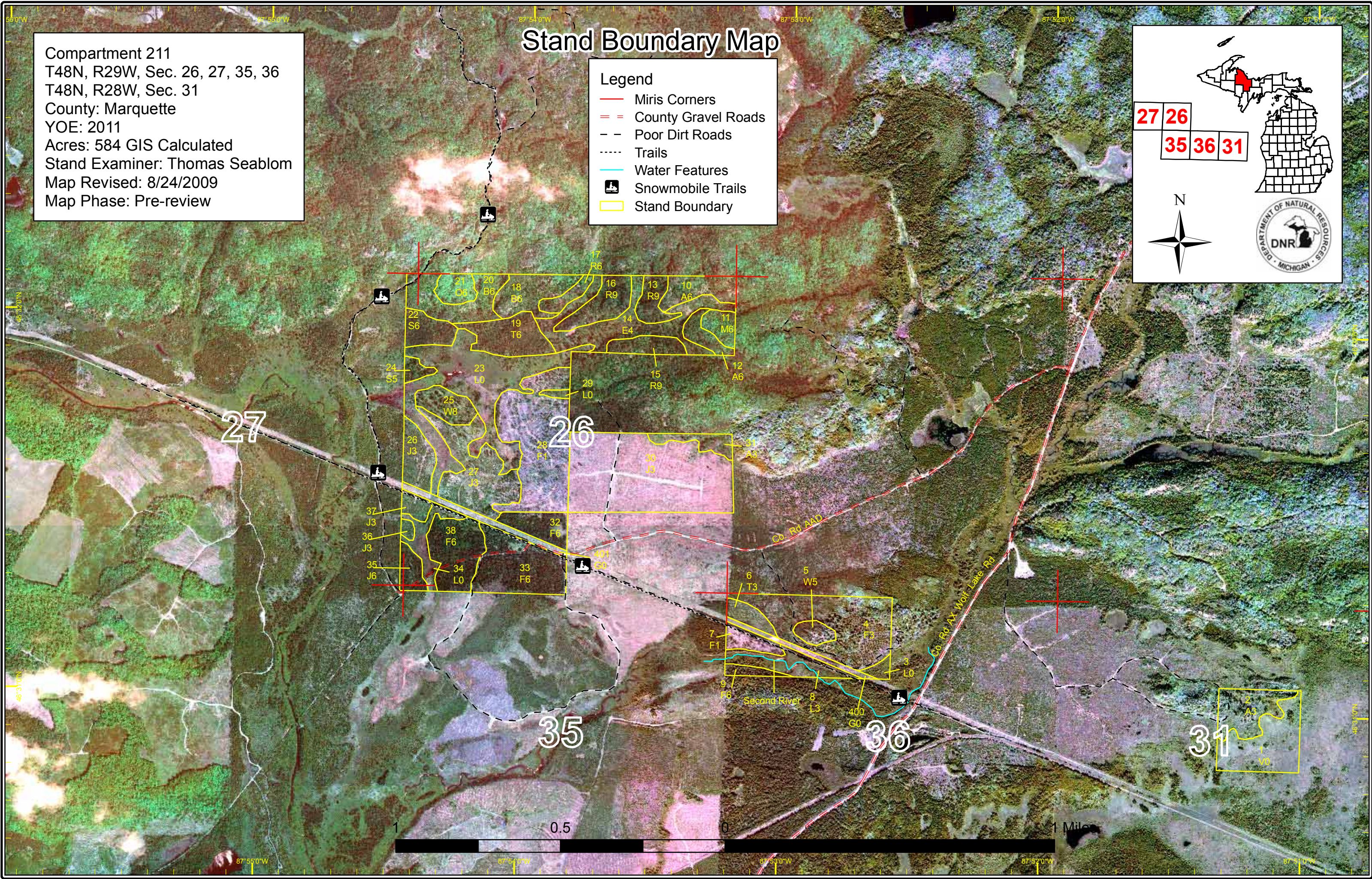
Legend

- Miris Corners
- County Gravel Roads
- Poor Dirt Roads
- Trails
- Water Features
- Snowmobile Trails
- Stand Boundary

27	26	
35	36	31

N








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DNR
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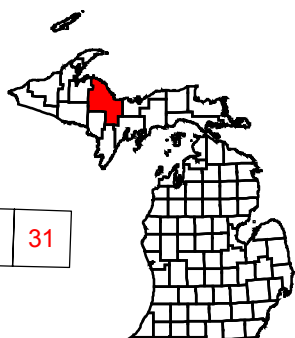


Dedicated & Proposed Special Conservation Area Map

Compartment 211
 T48N, R29W, Sec. 26, 27, 35, 36
 T48N, R28W, Sec. 31
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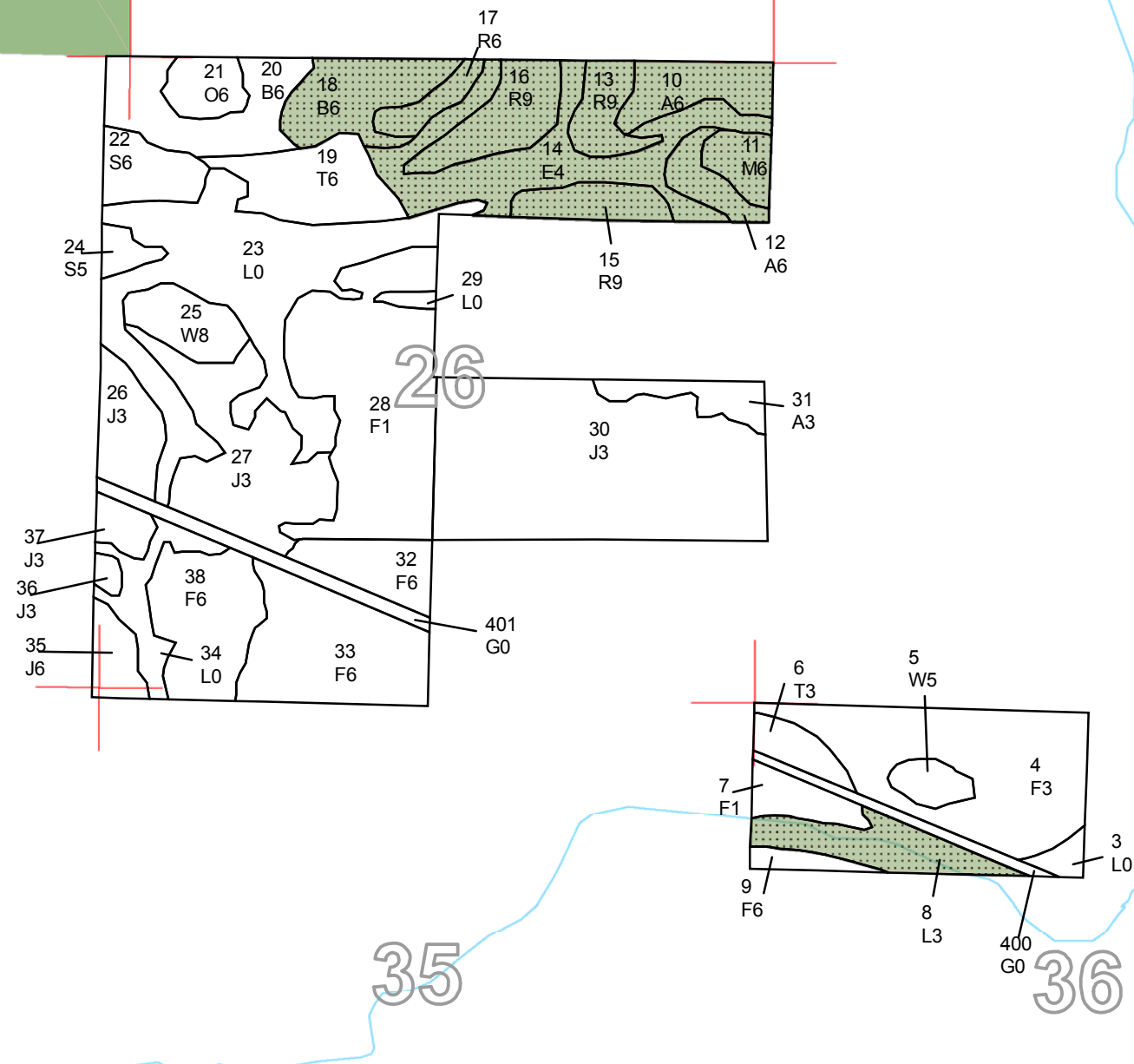
Legend

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



27 26
 35 36 31

N

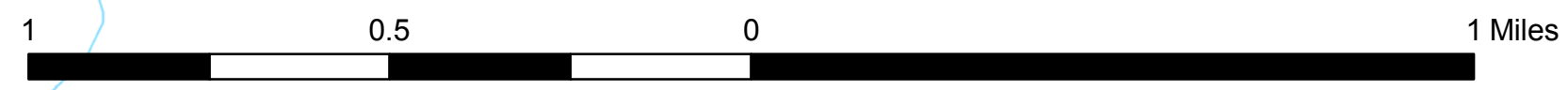
27

26

35

36

31



87°55'0"W 87°54'0"W 87°53'0"W 87°52'0"W 87°51'0"W

87°56'0"W 87°55'0"W

87°52'0"W

46°32'0"N

46°32'0"N

46°31'0"N

46°31'0"N



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.