



**Gwinn Forest Management Unit**  
**Compartment Review Presentation**  
**Compartment 221                      Entry Year: 2009**  
**Compartment Acreage: 1084    County: Marquette**

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**Revision Date:** March 24, 2009

**Stand Examiner:** Thomas Seablom

**Legal Description:** T46N R28W Sec. 16, 17 and 18

**RMU (if applicable):** None

**Management Goals:** Management goals include maintaining and increasing timber production and maintaining both wildlife habitat and water quality. Timber production will focus on fiber production with sawtimber being a minor component, occurring on the more productive sites. Managing as such will provide both cover and feed for wildlife.

**Soil and Topography:** This compartment is generally level to gently rolling. It is on the northern fringe of a larger sandy outwash plain. Soils are predominately sands and mucks. The marsh complex within this area is made up of the Greenwood and Dawson soil mapping unit while the uplands are Pence fine sandy loam and to a lesser degree Rubicon sand and the Rubicon-Ishpeming-Rock outcrop complex.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Ownership is primarily State and private individuals with some timber company land in the area. Development is in both primary residency and camps. The majority of the primary residences are to the east of the compartment along the Co. Rd. 581 corridor. Land use is a mix of timber management and recreation.

**Unique, Natural Features:** None

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

**Special Management Designations or Considerations:** Stands along the Black River and West Branch Creek are listed as Special Conservation Areas (SCA) for Potential Old Growth (POG).

**Watershed and Fisheries Considerations:** Both the Black River and West Branch Creek are tributaries to the Middle Branch Escanaba River.

**Wildlife Habitat Considerations:** Text

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of coarse-textured till, glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 10 and 50 feet. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. This rock could be used as a dimension stone. Gravel pits are located in the area and there could be some potential. The abandoned Republic iron mine is located three miles to the west. Sections 21 and 29 are currently leased for metallic exploration. There is no economic oil and gas production in the UP.

**Vehicle Access:** Vehicle access is good. County roads lead to the compartment and secondary roads are networked throughout the remainder of the compartment. An easement to the north of section 17 exists to access the northwest portion of the compartment.

**Survey Needs:** None

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

**Fire Protection:** This compartment is on the northern fringe of a sandy outwash plain that is predominantly jack pine and is within the boundary of the South Ishpeming-581 Zone dispatch. Access for fire equipment to this compartment and area is good. The most western edge of this compartment and immediately to the west access becomes more difficult as the vegetation is predominantly marsh and granite outcrop islands. The jack pine in this compartment and surrounding area is fairly young, 0-30 years, with relatively little mature timber.

**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: 221

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				74	105														179
Black Spruce									59										59
Grass	2																		2
Jack Pine			75	144		67			34										320
Lowlnd Brush	50																		50
Marsh	182																		182
Red Pine																		11	11
Spruce Fir				16	93				7									8	124
Treed Bog	141																		141
White Pine																		16	16
<b>Total</b>	<b>375</b>		<b>75</b>	<b>234</b>	<b>198</b>	<b>67</b>			<b>100</b>									<b>35</b>	<b>1084</b>

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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: 221

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	179																										179
S Black Spruce		59																									59
G Grass					2																						2
J Jack Pine							320																				320
L Lowlnd Brush									50																		50
N Marsh											182																182
R Red Pine																1			10								11
F Spruce Fir																			124								124
D Treed Bog																						141					141
W White Pine																										16	16
Total	179	59			2		320		50		182					1		134				141				16	1084

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: **221**

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	1708 Cds	Hardwood	43 Cds
Softwood	4782 Cds	Softwood	552 Cds
Softwood	184 Mbf	Sum CutVol	595 Cds
Sum TotVol	6858 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	44
	1084		

**GWINN FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 221 Entry Year: 2011**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
<b>6</b>	<b>R7</b>	10		60	spruce-fir (uplands-including upland black spruce)	sparse	final harvest	3		
<p>comnts Fmd : 4/7/2009: Stand will be clearcut and converted to fir. All trees except red and white pine and those spruce with less than a 6-inch stump diameter will be cut. Regeneration of pine and spruce-fir will be protected. A summer harvest will be required to obtain scarification. (1999) Cut in 1993-94 by Oscar Antilla, permit #21-91, Black River Block. Marked red and white pine were cut as well as all merchantable aspen and birch, jack pine with 2 or more sticks, and spruce/fir with 3 or more sticks. After the windstorm of July 21, 2002, a salvage cut was made by Holli Forest Products in the fall of 2002, timbersale #101-03-02 (scaled sale) to cut all broken, downed and uprooted trees.</p>										
<b>19</b>	<b>J6</b>	8	69	60	jack pine	mature	final harvest	1	natural regeneration	
<p>comnts Fmd : A clearcut is being prescribed for this stand. All trees except red and white pine and white birch are to be cut. This will be the only retention for this stand. Site will be anchor chained following completion of harvest to regenerate jack pine. Scarifying in this manner will also aid in the regeneration of spruce and fir. There is a seed source for these species on the southern edge of the stand. SEE LOCKED COMMENTS.</p>										
<b>21</b>	<b>J5</b>	26	69	65	jack pine	mature	final harvest	1	direct seeding	
<p>comnts Fmd : Clearcut this stand cutting all trees greater than 2-inches dbh except any red or white pine that may be present. This stand was salvaged after the windstorm of July 21, 2002 and has varying degrees of density. There is a heavy spruce-fir understory located in some areas of the stand. Upon completion of harvesting the site will be planted to jack pine. Where possible, trenching should go around pockets of regenerating aspen and spruce/fir.</p>										
<b>Total Acres.....</b>		<b>44</b>								

**Proposed Treatments  
With Limiting Factors**

**Compartment: 221**

**Entry Year: 2011**

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<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>
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TREATMENT LIMITING FACTORS:

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
















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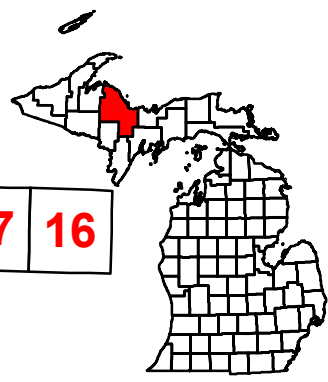


# Coverture & Treatment Map



Compartment 221  
 T46N, R28W, Sec. 16, 17, 18  
 County: Marquette  
 Unit: Gwinn  
 YOE: 2011  
 Acres: 1,084 GIS Calculated  
 Stand Examiner: Thomas Seablom  
 Map Revised: 3/23/2009  
 Map Phase: Pre-review

**Legend**

	Rls Corners		A - Aspen
	Miris Corners		D - Treed Bog
	County Gravel Roads		F - Upland Spruce or Fir
	Poor Dirt Roads		G - Grass
	Winter Roads		J - Jack Pine
	Gates		L - Lowland Brush
	Stand Boundary		N - Marsh
	133 - Final Harvest/Direct Seeding/Ground Application		R - Red Pine
			S - Black Spruce Swamp
			W - White Pine



18 17 16

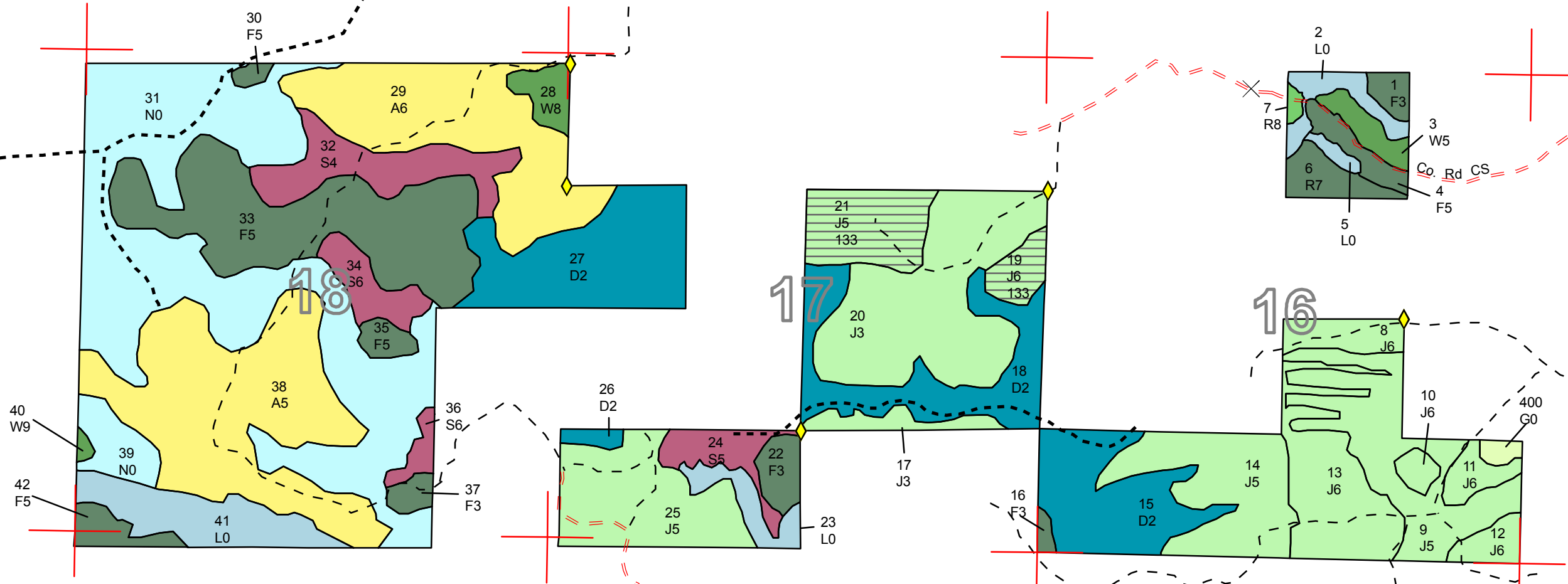



46°24'0"N

46°24'0"N

46°23'0"N

46°23'0"N



87°52'0"W

87°51'0"W

87°50'0"W

87°49'0"W

87°48'0"W



# Stand Boundary Map

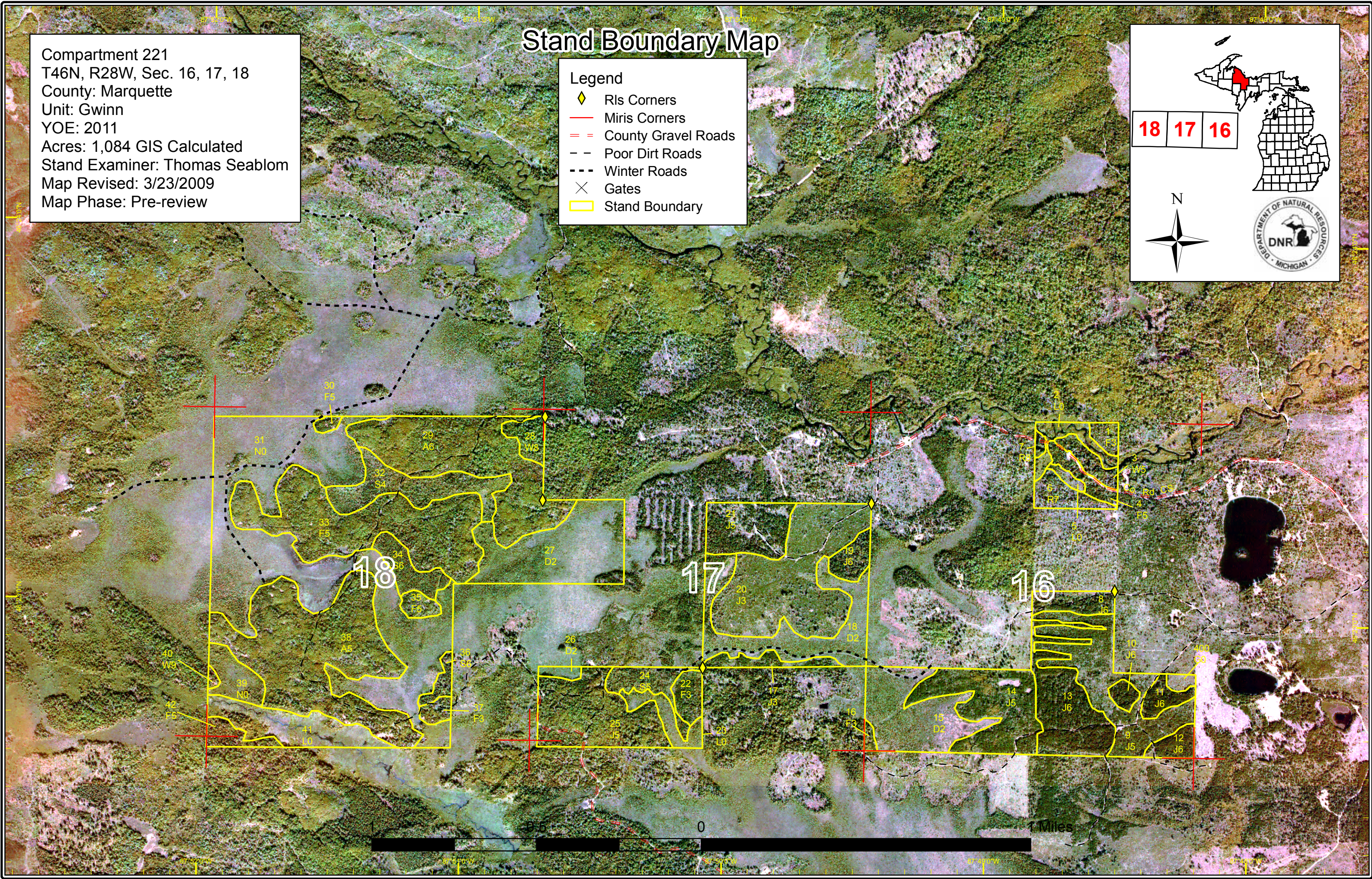
Compartment 221  
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Stand Examiner: Thomas Seablom  
Map Revised: 3/23/2009  
Map Phase: Pre-review

## Legend

- ◆ RIs Corners
- Miris Corners
- == County Gravel Roads
- - Poor Dirt Roads
- - Winter Roads
- × Gates
- Stand Boundary

18 17 16

DEPARTMENT OF NATURAL RESOURCES  
DNR  
MICHIGAN





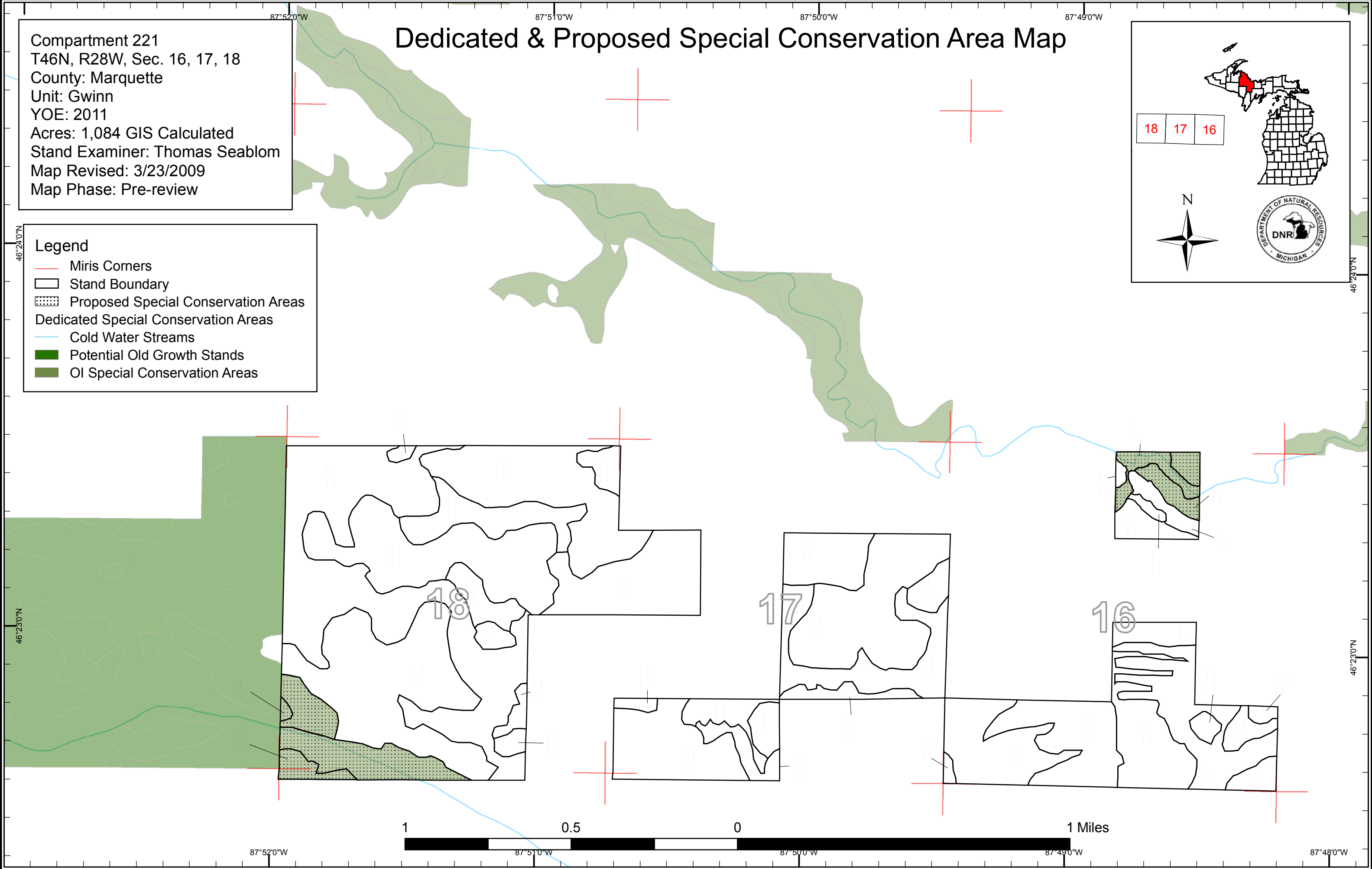
# Dedicated & Proposed Special Conservation Area Map

Compartment 221  
T46N, R28W, Sec. 16, 17, 18  
County: Marquette  
Unit: Gwinn  
YOE: 2011  
Acres: 1,084 GIS Calculated  
Stand Examiner: Thomas Seablom  
Map Revised: 3/23/2009  
Map Phase: Pre-review

**Legend**

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

18 17 16





## 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.