



**GWINN FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 59 ENTRY YEAR: 2011
Compartment Acreage: 1905 County: Marquette**

Revision Date: 03/19/2009

Stand Examiner: Jerry Mohlman

Legal Description: T44N R26W Sections 31, 32, 33

Management Goals: For the 2011 entry year, we propose selection harvests on three hardwood stands in the center of the compartment. This is the second harvest. Regeneration is good in most areas. We will retain representatives of all species in these harvests as well as legacy trees and other trees important to wildlife. The main goal is to improve or maintain the high quality timber in these stands, while preserving biodiversity. We propose final harvests in three Aspen stands. We will retain all pine, cedar and hemlock in those stands, if present. They will be naturally regenerated to aspen. One birch stand shows heavy mortality due to advanced age. We propose harvesting the remaining birch in that stand and leaving all hardwood. Mixed hardwood is in the understory, and the plan is to have that stand convert to northern hardwood.

Soils and topography: Ensley muck, Carbondale and Tawas soils, Greenwood and Dawson soils, Emmet fine sandy loam, Escanaba loamy fine sand, Solona fine sandy loam, Mashek fine sandy loam, Emmet-Escanaba complex, Kinross muck. Flat to rolling topography.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Some private land used for hunting camps west and south. Mostly state land elsewhere surrounding the compartment.

Unique, Natural Features:

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations: No special conservation areas in this compartment.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions:

Vehicle Access: Vehicle access is good throughout the compartment

Survey Needs: No survey work is requested for the 2011 entry period.

Recreational Facilities and Opportunities: General forest recreation, no developed recreational facilities.

Fire Protection: Fire frequency is low. Access for fire equipment is good throughout the compartment.

Additional Compartment Information: Very high quality hardwood is in this compartment.

- **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: 59

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		21	145	133	11		73	56	3										442
Black Spruce											69	58							127
Cedar											5		250						255
Grass	51																		51
Hemlock																		35	35
Lowlnd Poplr										16									16
Marsh	2																		2
Mx Swmp Cnfr								18		63		186							267
Paper Birch								16											16
Spruce Fir				18			31	27											76
Upland Hdwds																		583	583
White Pine				21								14							35
Total	53	21	145	172	11		104	117	3	79	74	258	250					618	1905

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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: 59

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	439																							3			442
S Black Spruce		127																									127
C Cedar				255																							255
G Grass					51																						51
H Hemlock						35																					35
P Lowlnd Poplr										16																	16
N Marsh											2																2
Q Mx Swmp Cnfr												267															267
B Paper Birch																									16		16
F Spruce Fir																			76								76
M Upland Hdwds																								583		583	
W White Pine																										35	35
Total	439	127		255	51	35				16	2	267							76					602		35	1905

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: **59**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	9933 Cds	Hardwood	2158 Cds
Hardwood	1852 Mbf	Hardwood	128 Mbf
Softwood	10847 Cds	Softwood	170 Cds
Softwood	642 Mbf	Softwood	9 Mbf
Sum TotVol	25768 Cds	Sum CutVol	2602 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	
1905		307	

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
19	B5	16	62	68	northern hardwood	mature	delayed removal	2		
<p>comnts Fmd : Thinned 1994 permit #021-91-01. Some mortality and dieback in birch occurring. Converting to M. Good regen 2" dbh in sugar maple. Good hardwood site(AOCa). Recommend cut all but token amount of w. birch.(paint some leave trees 1-2 acres for diversity), leaving all hardwood. Convert stand to hardwood. Hardwood BA would still be low, but regeneration is adequately established for stand of hardwood. Protect advanced regeneration during harvest. Cut mature fir, leave cedar.</p> <p>Wld : Underplant white pine and/or hemlock post harvest.</p>										
30	A6	3	75	60	northern hardwood	mature	final harvest	2		
<p>comnts Fmd : Mature aspen and w. birch. Some areas pure w. birch. Mortality occurring in both species. Could cut out aspen and birch, leave hardwood and protect regeneration to attempt full or partial conversion to hardwood. Higher ground is mostly a highly productive hardwood site. Also leave all hemlock and cedar. Nice sugar maple along road should be left for visual values even if a full clearcut is decided.</p>										
34	A6	53	62	73	aspen (upland)	mature	final harvest	2		
<p>comnts Fmd : Mature aspen well-stocked with some areas of blowdown especially on clearcut edge. Areas of w. birch but mostly aspen throughout. Some nice hardwood in stand but not well-stocked with hardwood. Possible to leave some hardwood for diversity or visual values, especially along roads. Some cedar patches to exclude.</p> <p>Wld : Type out and protect vernal ponds that exist in this stand during sale.</p>										
35	M9	171		68	northern hardwood	unevenaged	selection	2		
<p>comnts Fmd : Thinned 1994 permit # 21-91-01. Good Quality. Good sugar maple regeneration 6-10' tall in areas. Patches of hemlock. Some areas not much to cut due to lower BA but most areas could thin. Mostly an M9 stand but some M6. Thinner areas are stand 19 which is mostly a birch removal, difficult to type out on current imagery so actual marked area may be more or less.</p> <p>Wld : Retain all hemlock, as well as any cedar and white pine if it exists in stand. Underplant hemlock and/or white pine if it exists in stand.</p>										
36	A6	3	64	60	aspen (upland)	mature	final harvest	2		
<p>comnts Fmd : Small stand of A6 fades down into E. Vernal ponds. Mixed with birch. On good soil areas protect sugar maple regeneration and convert stand to hardwood.</p> <p>Wld : Protect vernal ponds that exist in this stand as "no cut" areas.</p>										
38	M6	23		60	northern hardwood	unevenaged	selection	2		
<p>comnts Fmd : Thinned 1994 Permit # 22-91-01. Good quality potential but still some poor quality to remove. Ready for another thinning, however some areas not much to remove due to existing BA. Low spot in stand at base of peninsula is mostly ash and cedar. South part of stand is an old "wildlife" cut which now has good regeneration 2-4" with scattered larger cedar and maple. Not much existing regeneration in the main part of stand due to higher BA.</p> <p>Wld : Cut no hemlock, white pine, or cedar if it exists in stand. Underplant hemlock and/or white pine post harvest.</p>										
44	M9	22		68	northern hardwood	unevenaged	selection	2		
<p>comnts Fmd : Thinned 1994 permit # 21-91-01. Good quality. Mostly small log stand. Good regen of sugar maple in gaps. Ready for another light thinning.</p> <p>Wld : Cut no hemlock, white pine, or cedar if it exists in stand. Underplant hemlock and/or white pine post harvest.</p>										
48	M6	3		68	northern hardwood	unevenaged	selection	2		
<p>comnts Fmd : Moraine between low areas. Mostly Red maple fair quality. Thin with better quality stand east. Some areas aspen west could do small patch clearcut. Leave hemlock. Good potential for quality improvement.</p> <p>Wld : Underplant hemlock and/or white pine post harvest. Cut no hemlock, white pine, or cedar if it exists in stand. Clear a couple small openings within sale to promote aspen patches.</p>										
Total Acres.....		294								

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
26	A6	13	49	65	aspen (upland)	mature	final harvest	2		

TREATMENT LIMITING FACTORS: Delayed treatment for age/size class diversity

comnts Fmd : An old wildlife cut is here. Scattered Big H,W.P., and C. Otherwise aspen is in good shape. Cut on private to south. Should clearcut but leave w. pine and any hemlock. Some nice hardwood is here but is not well-stocked with hardwood. Possible to leave some larger maple in harvest for diversity. Farther north in stand is more aspen and fir only.

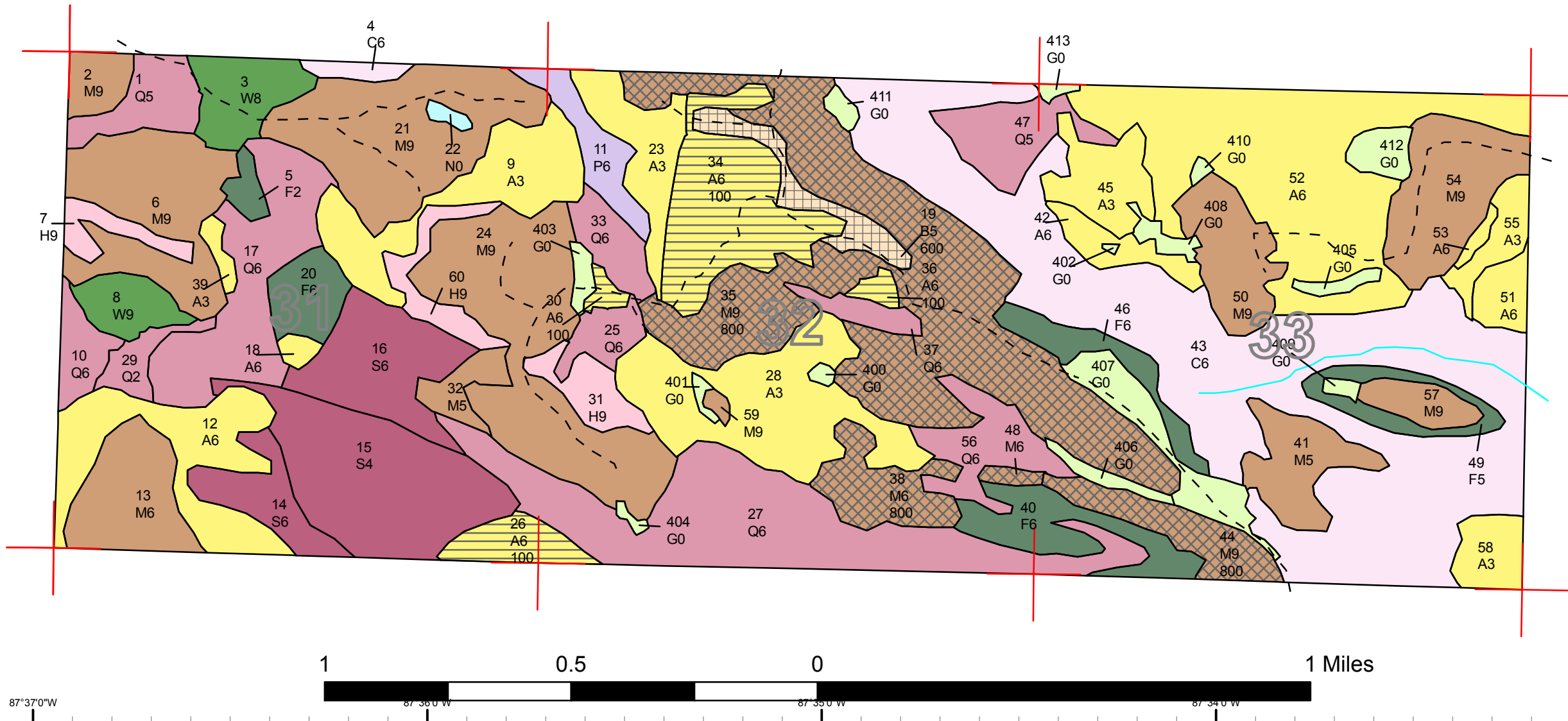
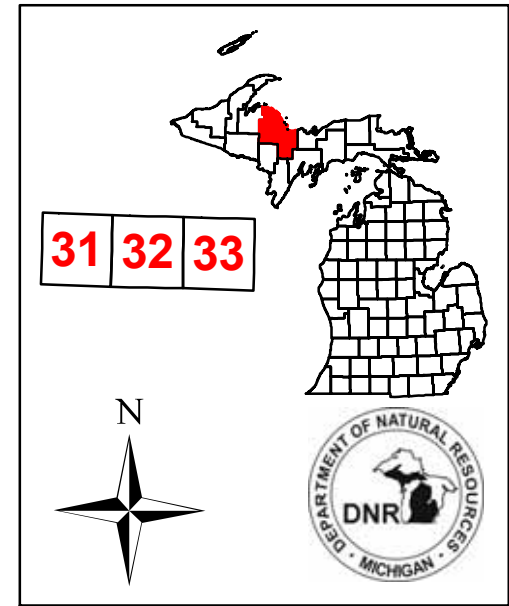
Total Acres..... 13

Covertypes & Treatment Map

Compartment 59
 T44N, R26W, Sec. 31, 32, 33
 County: Marquette
 Unit: Gwinn
 YOE: 2011
 Acres: 1,905 GIS Calculated
 Stand Examiner: Gerald Mohlman
 Map Revised: 2/18/2009
 Map Phase: Pre-review

Legend

- Miris Corners
- Poor Dirt Roads
- Water Features
- Stand Boundary
- 100 - Final Harvest
- 600 - Delayed Removal
- 800 - Selection
- A - Aspen
- B - Paper Birch
- C - Northern White Cedar
- F - Upland Spruce or Fir
- G - Grass
- H - Hemlock
- M - Northern Hardwoods
- N - Marsh
- P - Balsam Poplar, Swamp Aspen, Swamp White Birch
- Q - Mixed Swamp Conifers
- S - Black Spruce Swamp
- W - White Pine



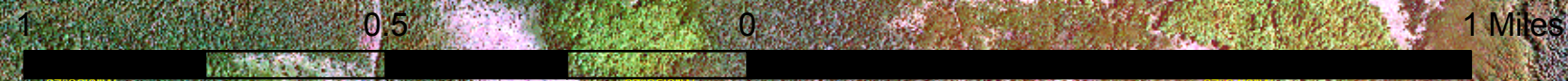
Compartment 59
T44N, R26W, Sec. 31, 32, 33
County: Marquette
Unit: Gwinn
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Stand Examiner: Gerald Mohlman
Map Revised: 2/18/2009
Map Phase: Pre-review

Stand Boundary Map

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

31 32 33







DEPARTMENT OF NATURAL RESOURCES
DNR
MICHIGAN

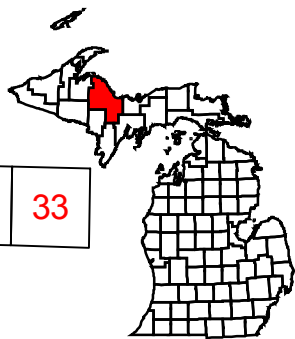


Dedicated & Proposed Special Conservation Area Map



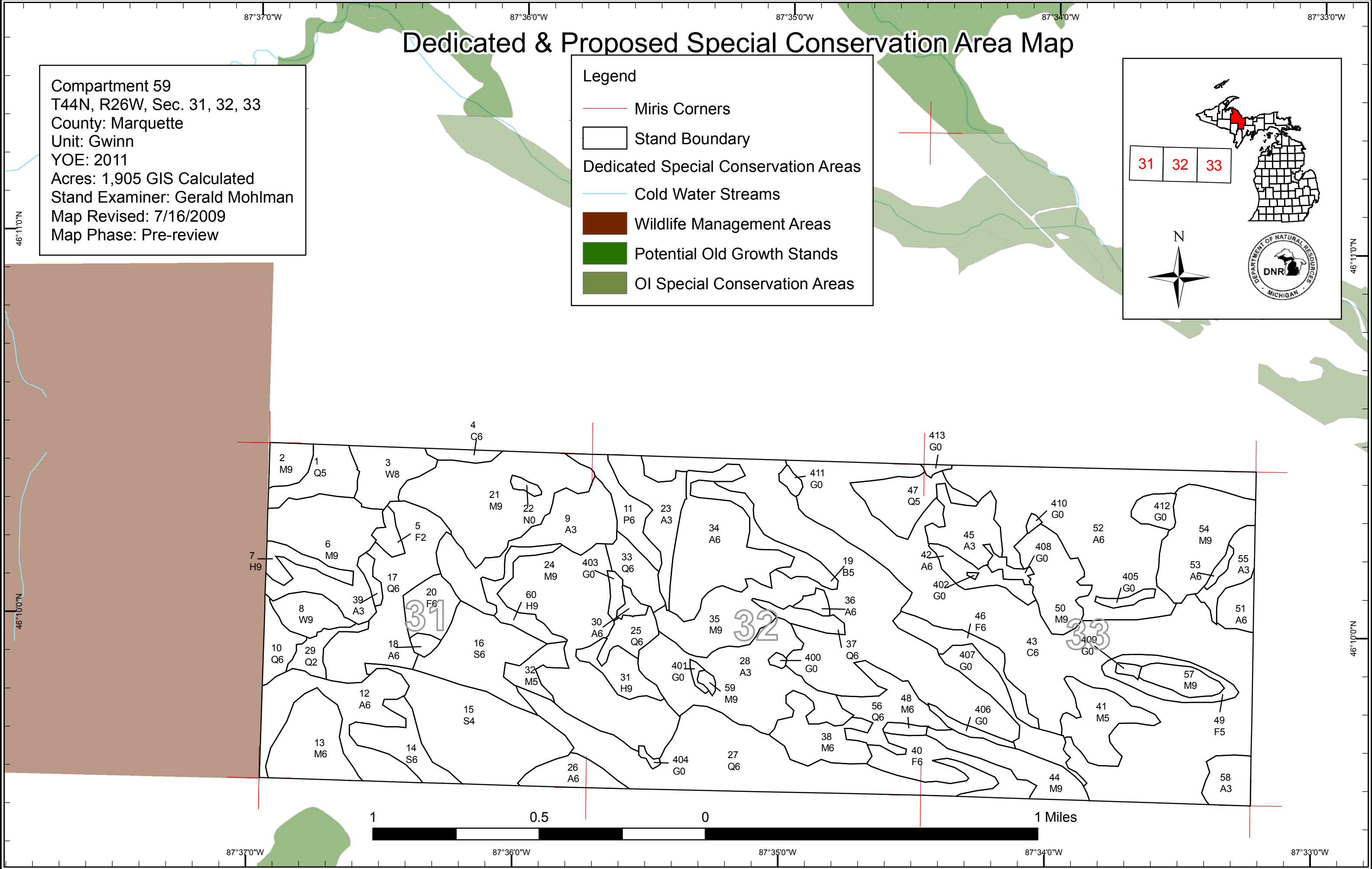
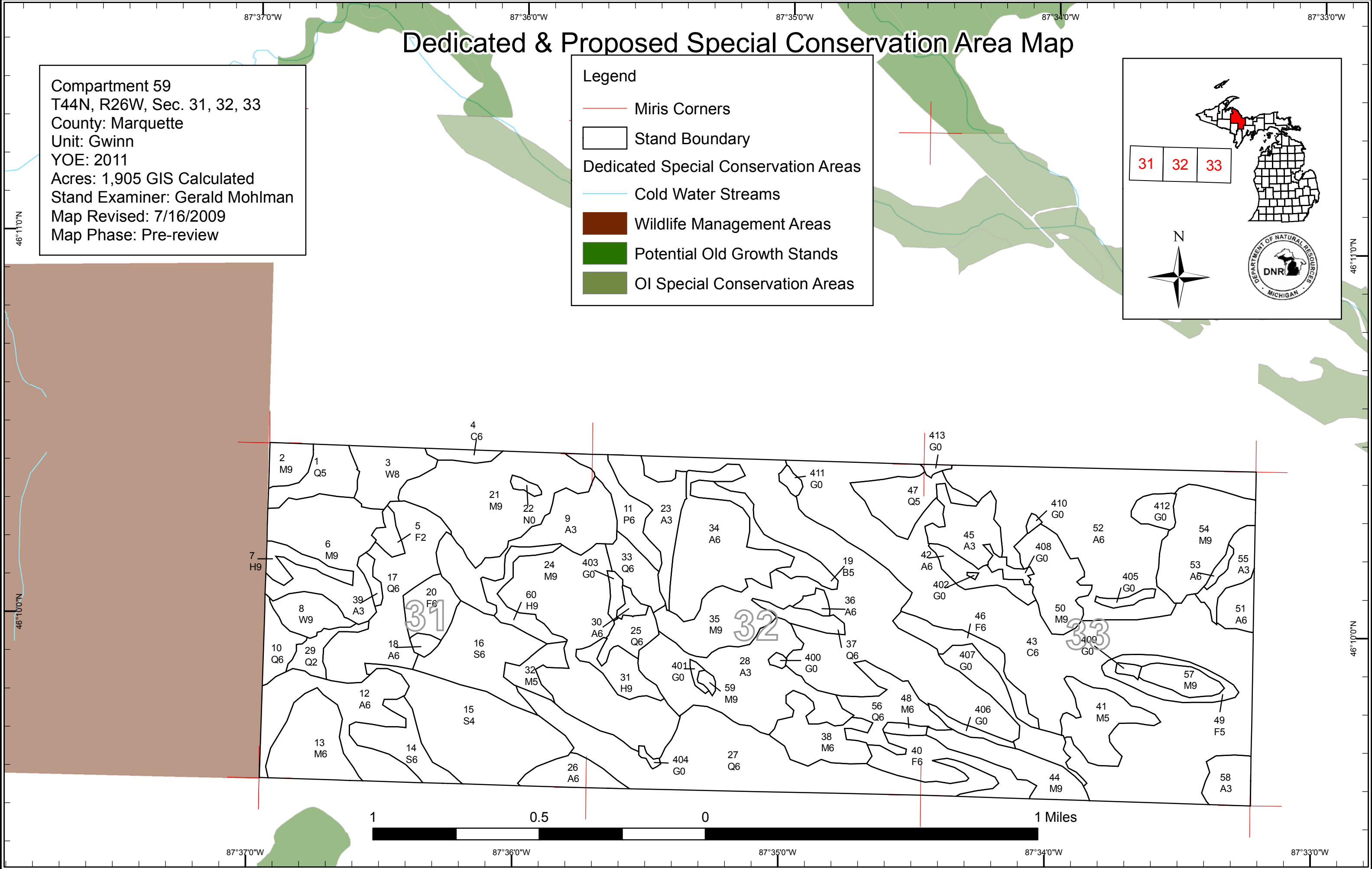
Compartment 59
 T44N, R26W, Sec. 31, 32, 33
 County: Marquette
 Unit: Gwinn
 YOE: 2011
 Acres: 1,905 GIS Calculated
 Stand Examiner: Gerald Mohlman
 Map Revised: 7/16/2009
 Map Phase: Pre-review

Legend

-  Miris Corners
-  Stand Boundary
- Dedicated Special Conservation Areas**
-  Cold Water Streams
-  Wildlife Management Areas
-  Potential Old Growth Stands
-  Ol Special Conservation Areas



31 32 33



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	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.
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.