



**PIGEON RIVER COUNTRY MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 54 ENTRY YEAR: 2010

Compartment Acreage: 1902 County: Otsego

Revision Date: 8/20/2008

Stand Examiner: Don Mittlestat

Legal Description: T32N R2W Sections 3, 4, and 5

RMU (if applicable):

Management Goals:

Maintain the current species mix and apply appropriate management techniques to mature stands of timber that are in need of treatment.

Soil and Topography:

Most of this compartment is rolling uplands dominated by loams and sandy loams. The exception being the lowlands along the Sturgeon River.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

This compartment is bordered on the North and West boundaries by private lands. There are also two private 40's in Section 3.

Unique, Natural Features:

Past occurrences of red-shouldered hawks have been recorded by MNFI

Archeological, Historical, and Cultural Features:

None known

Special Management Designations or Considerations:

The compartment is part of the Green Timbers Special Management Area which is off limits to motor vehicles. The entire Sturgeon River valley from ridge top to ridge top has been nominated for Old Growth Consideration.

Watershed and Fisheries Considerations:

The Sturgeon river flows through this compartment.

Wildlife Habitat Considerations:

See wildlife comments.

Mineral Resource and Development Concerns and/or Restrictions:

Surface sediments consist of coarse-textured glacial till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift is the Devonian Antrim Shale that is quarried for cement products elsewhere in the State. Gravel pits are located in the area and potential is good on the upland areas. This area is north of the Niagaran reef trend and in the Antrim Shale gas play. The Antrim Shale is present but State lands can not be leased for development. Hydrocarbons under State lands just to the south are being drained by offset private producing wells.

Vehicle Access:

All of sections 4 and 5 and the west half of section 3 have been closed to motor vehicle use by a Director's Order. Honey Locust Trail, a county road passes through the east half of section 3.

Survey Needs:

The boundaries of two privately owned 40 acre parcels have never been established. These will need to be surveyed for timber sale boundaries. These 40's have been appraised and may be purchased in the near future.

Recreational Facilities and Opportunities:

None

Fire Protection:**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

MACKINAW STATE FOREST

PIGEON RIVER COUNTRY MGT UNIT

OTSEGO COUNTY

COMPARTMENT: 54

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		33		68	49	4				107									261
Cedar																18			18
Grass	239																		239
Jack Pine				29			20	30											79
Local Name			2																2
LowInd Brush	11																		11
LowInd Poplr										2									2
Mx Swmp Cnfr													10						10
Oak									104										104
Red Pine							14										14		28
Upland Brush	269										86								355
Upland Hdwds					39						540	195							774
White Pine																	19		19
Total	519	33	2	97	88	4	34	30	104	109	626	195	10			18	33		1902

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

MACKINAW STATE FOREST

PIGEON RIVER COUNTRY MGT UNIT

OTSEGO COUNTY

COMPARTMENT: 54

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	261																										261
C Cedar				18																							18
G Grass					239																						239
J Jack Pine							79																				79
I Local Name								2																			2
L LowInd Brush									11																		11
P LowInd Poplr										2																	2
Q Mx Swmp Cnfr												10															10
O Oak														104													104
R Red Pine																28											28
U Upland Brush					211																			144			355
M Upland Hdwds					61																				713		774
W White Pine																										19	19
Total	261			18	511		79	2	11	2		10		104		28								144	713	19	1902

MACKINAW STATE FOREST

PIGEON RIVER COUNTRY MGT UNIT

OTSEGO COUNTY

COMPARTMENT: **54**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	10048 Cds	Hardwood	1282 Cds
Hardwood	3489 Mbf	Hardwood	465 Mbf
Softwood	1259 Cds	Softwood	482 Cds
Softwood	145 Mbf	Softwood	12 Mbf
Sum TotVol	18575 Cds	Sum CutVol	2718 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	
1902		236	

PIGEON RIVER COUNTRY MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 54

Entry Year: 2010

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
16	M7	61	94	60	grass	sparse		0	other - specify in remarks	
comnts Fmd : 1998 Prescribe burn as much of this stand as possible. Determine exact burn boundaries at a later time. 2008 SAME COMMENT AS 1998										
18	M9	176	98	60	northern hardwood	immature	selection	2		
comnts Fmd : 2008 LEAVE ASPEN TO DIE AND BECOME SNAGS. Hardwood species would be expected to regenerate the stand.										
19	U2	4			upland brush	nonstocked		0	other - specify in remarks	
comnts Fmd : 2007 THIS STAND IS AUTUMN OLIVE. TREAT STAND MECHANICALLY, AND/OR SPRAY, AND/OR BURN TO KILL AUTUMN OLIVE										
21	U2	3			upland brush	nonstocked		0	other - specify in remarks	
comnts Fmd : 2007 SEE COMMENTS FOR STAND 16										
22	M5	119	96	55	northern hardwood	immature		0	other - specify in remarks	
comnts Fmd : 2008 TREAT PARTS OF THIS STAND THAT AUTUMN OLIVE HAS ENCROACHED INTO USING THE SAME METHODS DESCRIBED IN COMMENTS FOR STAND 16										
23	U2	9			upland brush	nonstocked		0	other - specify in remarks	
comnts Fmd : 2007 THIS STAND IS AUTUMN OLIVE. SEE COMMENTS FOR STAND 16.										
25	U0	125			grass	nonstocked		0	other - specify in remarks	
comnts Fmd : 1998 Prescribe burn as much of this stand as possible. Steep terrain may make some areas inoperable. The exact burn boundaries will be determined at a later time. 2008 SAME COMMENT AS 1998										
26	M5	10	94	55	northern hardwood	low quality		0	other - specify in remarks	
comnts Fmd : 2008 PRESCIBE BURN AS MUCH OF THIS STAND AS POSSIBLE WITH OTHER STANDS PRESCRIBED										
38	U0	86	94	60	grass	sparse		0	other - specify in remarks	
comnts Fmd : 1998 Prescribe burn as much of this stand as possible. Determine exact burn boundaries at a later time. 2008 SAME COMMENT AS 1998										
57	W6	19	181	55	white pine	immature	shelterwood-seed	3		
comnts Fmd : pine aspen and red maple and soft wood species would be expected to regenerate the stand.										
76	J6	9	67	45	jack pine	immature	final harvest	1		
comnts Fmd : 2007 LEAVE SOME OAK , RED AND WHITE PINE CLUMPS IF THERE ANY. Jack, red and white pine as well as oak, aspen and red maple would be expected to regenerate the stand.										
77	J6	21	67	45	jack pine	immature	seed tree	1		
comnts Fmd : 2007 There are at least 2 areas (maybe more) of mature red and white pine. Leave the areas for retention, and leave big red and white pine through out the cut. DO NOT CUT ANY OAK THAT MAY BE IN THE STAND. RED, WHITE AND JACK PPINE AS WELL AS RED MAPLE AND ASPEN WILL BE ACCEPTABLE FOR RERGERATION. Jack, red and white pine as well as oak, aspen and red maple would be expected to regenerate the stand.										
401	G0	15			grass	sparse		0	opening maintenance	
comnts Fmd : This is a managed wildlife opening.										
402	G0	41			grass	nonstocked		0	opening maintenance	
comnts Fmd : 1998 This is a managed wildlife opening. .										
403	G0	87			grass	nonstocked		0	opening maintenance	
comnts Fmd : This is a managed wildlife opening.										

PIGEON RIVER COUNTRY MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 54

Entry Year: 2010

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
404	G0	23			grass	nonstocked		0	opening maintenance		
comnts Fmd : This is a managed wildlife opening.											
405	G0	8			grass	nonstocked		0	opening maintenance		
comnts Fmd : This is a managed wildlife opening.											
406	G0	59			grass	nonstocked		0	opening maintenance		
comnts Fmd : This is a managed wildlife opening.											
407	G0	6			grass	nonstocked		0	opening maintenance		
comnts Fmd : This is a managed wildlife opening.											
Total Acres.....		881									

PIGEON RIVER COUNTRY MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 54

Entry Year: 2010

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
80	R9	11	178	55	red pine	mature	seed tree	3		

TREATMENT LIMITING FACTORS: Land survey needed

comnts Fmd : 2007 If the private property is acquired this stand could be cut. Jack, red and white pine as well as oak, aspen and red maple would be expected to regenerate the stand.

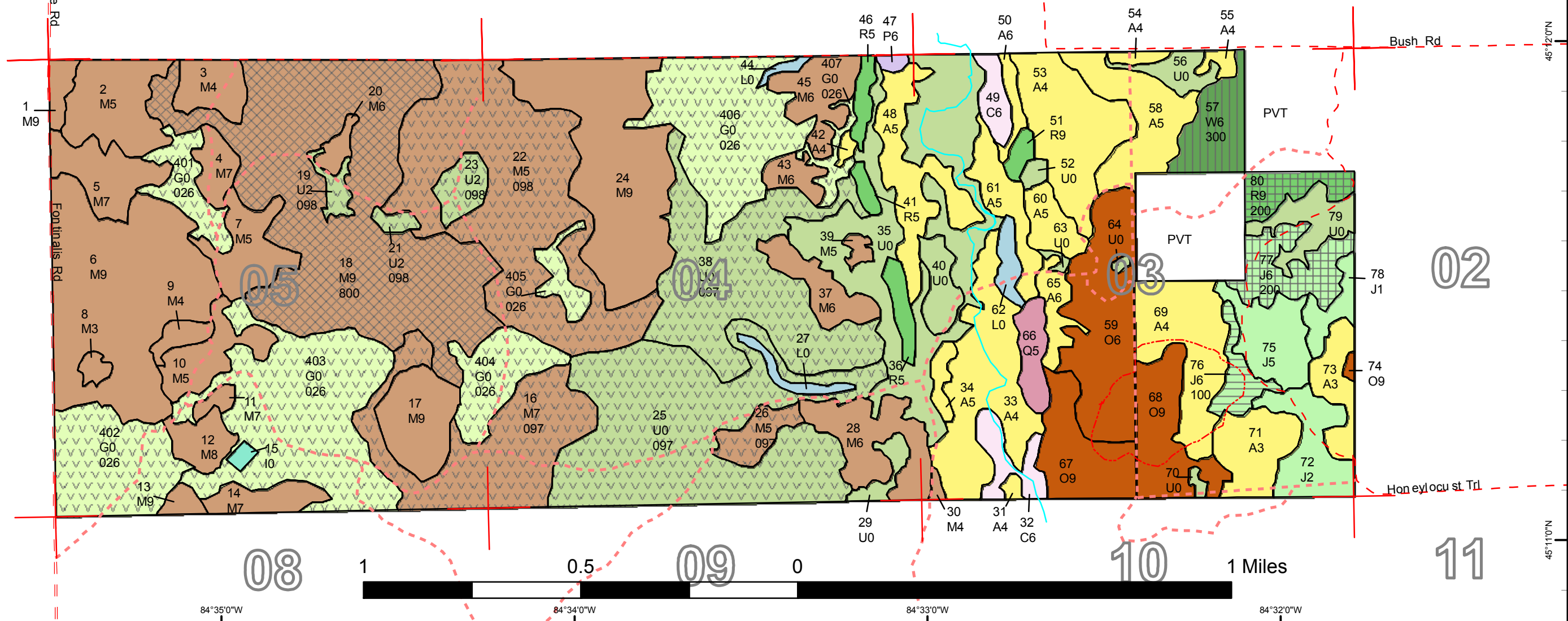
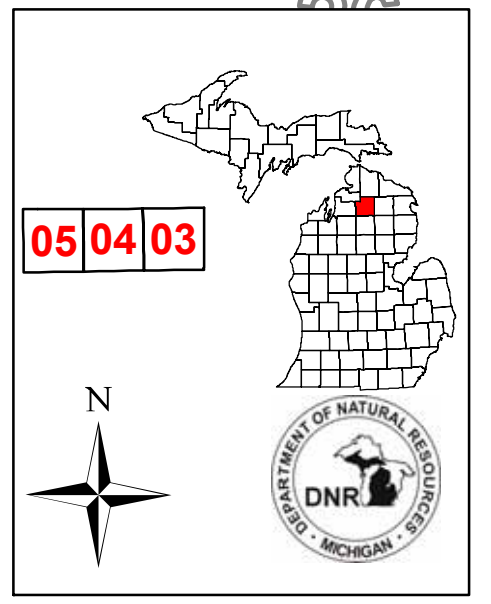
Total Acres..... 11

Compartment 54
 T32N, R02W, Sec. 3, 4, 5
 County: Otsego
 Unit: Pigeon River Country
 YOE: 2010
 Acres: 1,902 GIS Calculated
 Stand Examiner: Don Mittlestat
 Map Revised: 6/06/2008
 Map Phase: Pre-review

Cover Type and Treatment

Legend

- | | | | |
|-------|--------------------------------|---|---|
| — | Miris Corners | ■ | A - Aspen |
| == | County Gravel Roads | ■ | C - Northern White Cedar |
| - - - | County Poor Dirt Roads | ■ | G - Grass |
| - - - | Closed Roads | ■ | I - Local Use |
| - - - | Wildfire Boundary | ■ | J - Jack Pine |
| — | Water Features | ■ | L - Lowland Brush |
| □ | Stand Boundary | ■ | M - Northern Hardwoods |
| ▨ | 026 - Opening Maintenance | ■ | O - Oak |
| ▩ | 097 - Other/Prescribed Burning | ■ | P - Balsam Poplar, Swamp Aspen, Swamp White Birch |
| ▪ | 098 - Other/Other | ■ | Q - Mixed Swamp Conifers |
| ▧ | 100 - Final Harvest | ■ | R - Red Pine |
| ▦ | 200 - Seed Tree | ■ | U - Upland Brush |
| ▥ | 300 - Shelterwood - Seed | ■ | W - White Pine |
| ▤ | 800 - Selection | | |




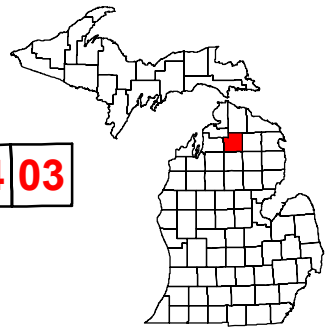

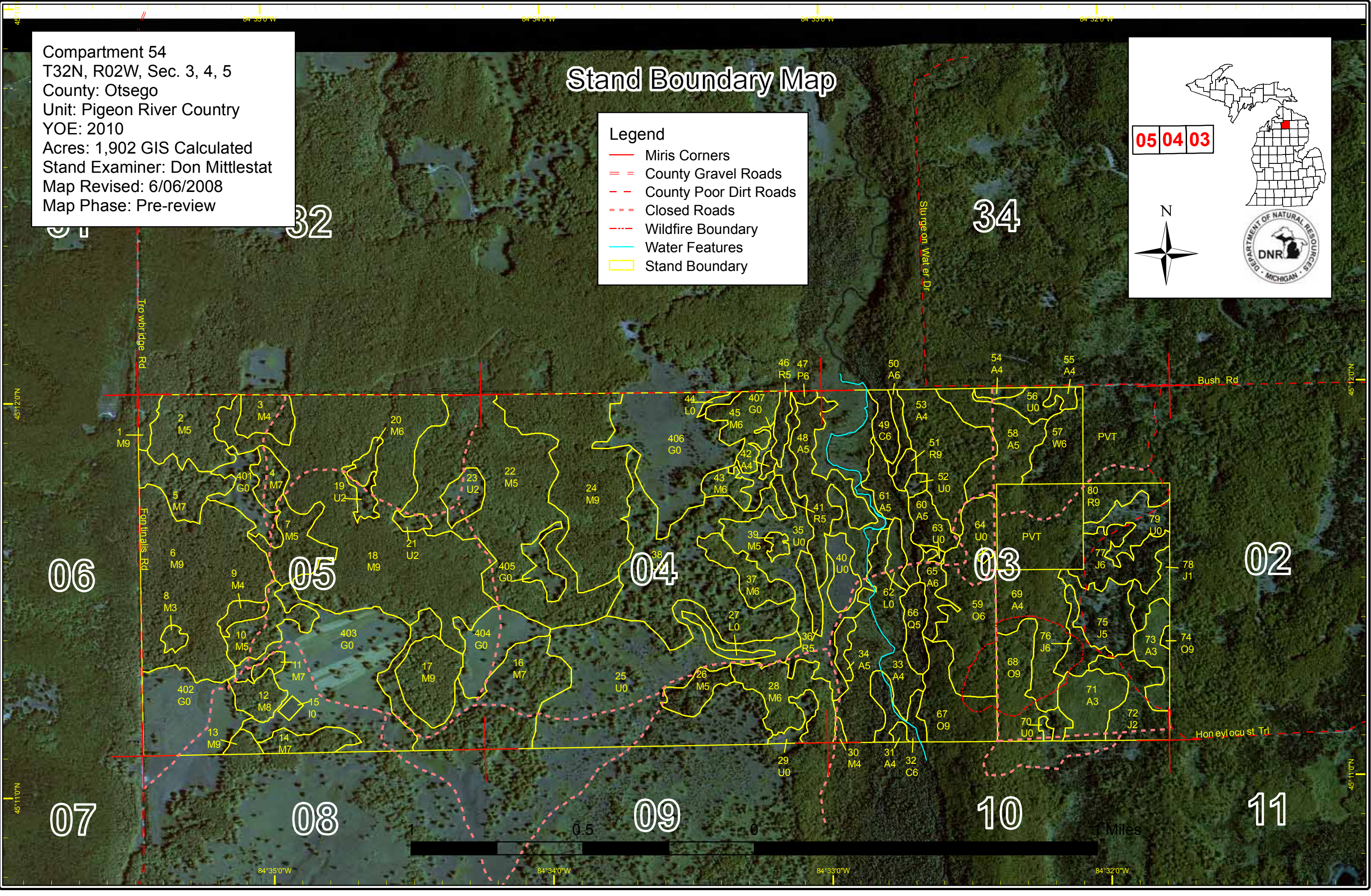
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Stand Boundary Map

Legend

- Miris Corners
- = County Gravel Roads
- - County Poor Dirt Roads
- - - Closed Roads
- · - · Wildfire Boundary
- Water Features
- Stand Boundary

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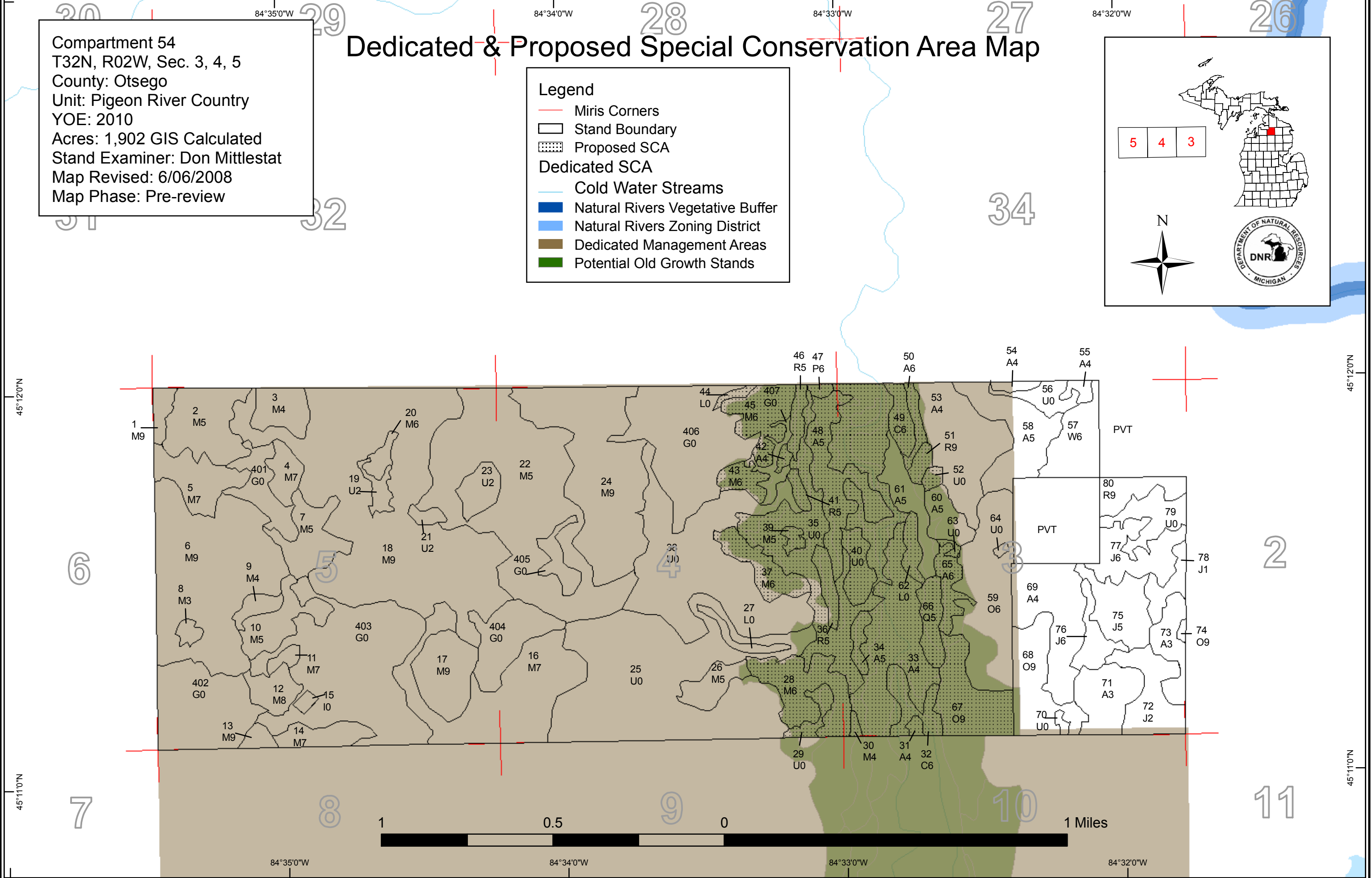





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Dedicated & Proposed Special Conservation Area Map

Legend

- Miris Corners
- Stand Boundary
- Proposed SCA
- Dedicated SCA**
- Cold Water Streams
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Dedicated Management Areas
- Potential Old Growth Stands





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
HCVA	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR.
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.