



**GAYLORD FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT: 46

ENTRY YEAR: 2011
Compartment Acreage: 1,613
County: ANTRIM

Revision Date: 4/20/2009

Stand Examiner: Barta

Legal Description: T31N R5W Sec. 4, 5, 7 & 9

Management Goals: To provide for the protection, integrated management and responsible use of a healthy, productive and undiminished forest resource base for the social, recreational, environmental and economic benefit of the State of Michigan.

Soil and Topography: Terrain varies from nearly level to very steep. Major cover type is northern hardwood. The major soil type is Kalkaska-Montcalm sandy soils that are well drained or somewhat excessively drained on hills and ridges.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Compartment consists of one contiguous parcel of state ownership except for 40 acres in Section 7. There is some adjacent agriculture. Some oil and gas development has been established and is ongoing.

Unique, Natural Features:

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations: In light of the new protocol for establishing SCAs, the designation "Stand Condition 8" is being removed from Stands 5 and 32. These stands and the water features they contain will continue to enjoy protection by using limiting factors and BMP's.

Watershed and Fisheries Considerations: This compartment contains a portion of Warner Creek, a tributary to the Jordan River. Warner Creek is a designated trout stream and should be protected. Prescribed treatments (thinning) are appropriate for protection of this stream.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of coarse-textured glacial till. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Devonian Ellsworth Shale. The Ellsworth is quarried for cement products elsewhere in the State. A gravel pit is located in Section 8 and potential is good. All of the State lands have been leased and developed for the Antrim Shale.

Vehicle Access: Access is limited throughout the compartment.

Survey Needs: The proposed treatments border private property, but no survey assistance is expected to be necessary.

Recreational Facilities and Opportunities: The North Country Trail passes through Section 9.

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

GAYLORD FOREST MGT UNIT

ANTRIM COUNTY

COMPARTMENT: 46

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		38	30															41	109
Cedar																		10	10
Grass	98																		98
Mx Swmp Cnfr																		20	20
Red Pine			2																2
Upland Hdwds																		1374	1374
Total	98	38	32															1445	1613

MACKINAW STATE FOREST

GAYLORD FOREST MGT UNIT

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COMPARTMENT: **46**

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	109																										109
C Cedar				10																							10
G Grass					98																						98
Q Mx Swmp Cnfr											20																20
R Red Pine															2												2
M Upland Hdwds																								1374		1374	
Total	109			10	98						20				2									1374		1613	

MACKINAW STATE FOREST

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Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	10672 Cds	Hardwood	1114 Cds
Hardwood	6383 Mbf	Hardwood	423 Mbf
Softwood	206 Cds	Sum CutVol	1960 Cds
Softwood	102 Mbf		
Sum TotVol	23848 Cds		
Total Cmpnt Acres		Acres Proposed For Cut.....	232
	1613		

GAYLORD FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 46

Entry Year: 2001

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status	
18	M9	76		76	northern hardwood	unevenaged	thinning	1			
comnts Fmd : 1999: Some severe slopes that should be avoided. Ridge top forms the boundary between stands 18 & 14. Best timber is in SW corner. Some places are clumps of junk without crop trees. Do not discriminate against any species when marking. 2009: Obtain appropriate signage from the Recreation Specialist and place on the North Country Trail at the time of the sale.											
21	M9	156		76	northern hardwood	unevenaged	thinning	1			
comnts Fmd : FDF-BASSWOOD LOGS POOR QUALITY SUGAR MAPLE LOGS OLD GROWTH 1999: Give it more time to increase BA where needed. Best timber is in SW corner which is a north slope that is steep in places. In places the stand is primarily clumps and junk on ridgetops											
404	G0	12			grass	nonstocked		0	opening maintenance		
408	G0	4			grass	nonstocked		0	opening maintenance		
411	G0	7			grass	nonstocked		0	opening maintenance		
413	G0	6			grass	nonstocked		0	opening maintenance		
Total Acres.....		261									

**Proposed Treatments
With Limiting Factors**

Compartment: 46

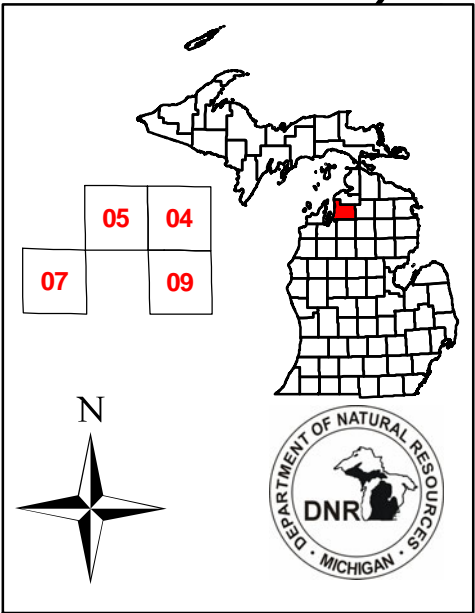
Entry Year: 2001

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:

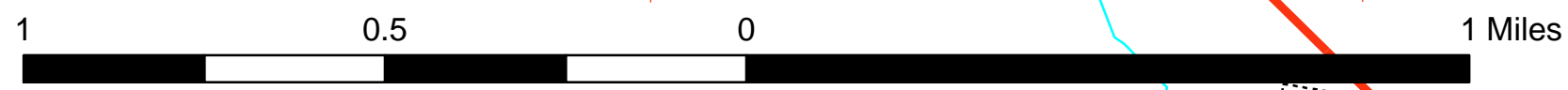
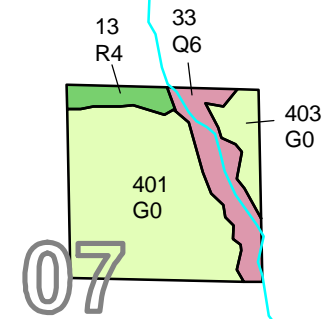
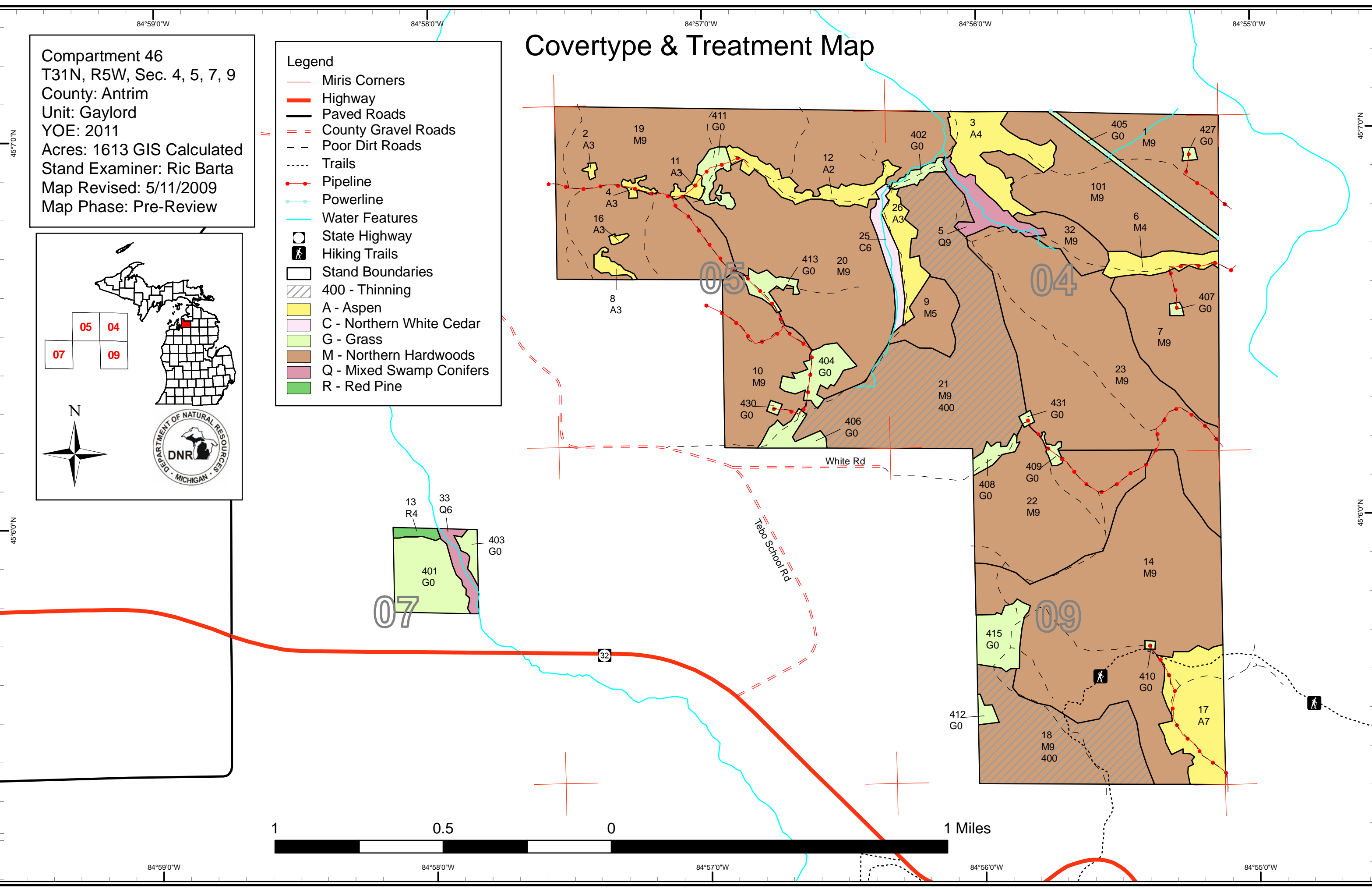
Total Acres..... 0

Compartment 46
 T31N, R5W, Sec. 4, 5, 7, 9
 County: Antrim
 Unit: Gaylord
 YOE: 2011
 Acres: 1613 GIS Calculated
 Stand Examiner: Ric Barta
 Map Revised: 5/11/2009
 Map Phase: Pre-Review



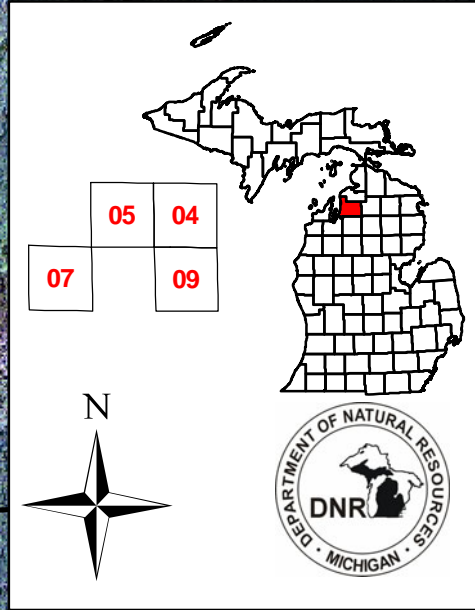
- Legend**
- Miris Corners
 - Highway
 - Paved Roads
 - County Gravel Roads
 - Poor Dirt Roads
 - Trails
 - Pipeline
 - Powerline
 - Water Features
 - State Highway
 - ▲ Hiking Trails
 - Stand Boundaries
 - 400 - Thinning
 - A - Aspen
 - C - Northern White Cedar
 - G - Grass
 - M - Northern Hardwoods
 - Q - Mixed Swamp Conifers
 - R - Red Pine

Covertime & Treatment Map

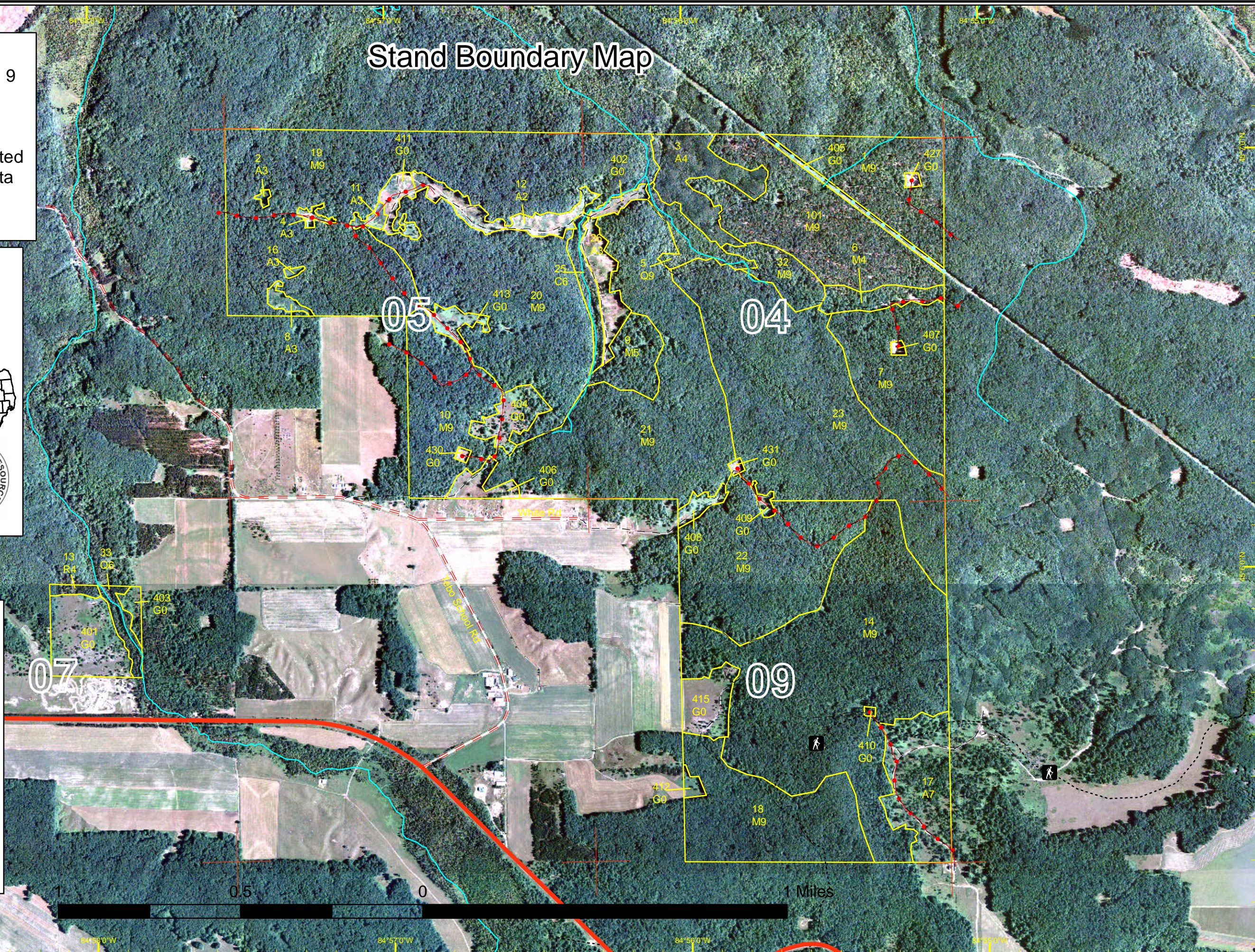


Stand Boundary Map

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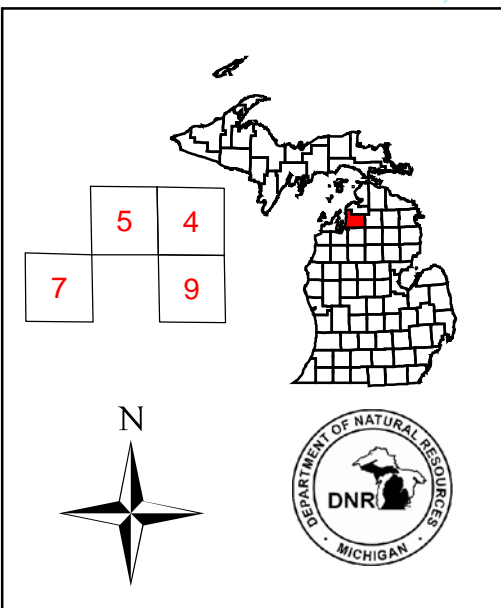


- Legend**
- Miris Corners
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 - Stand Boundaries



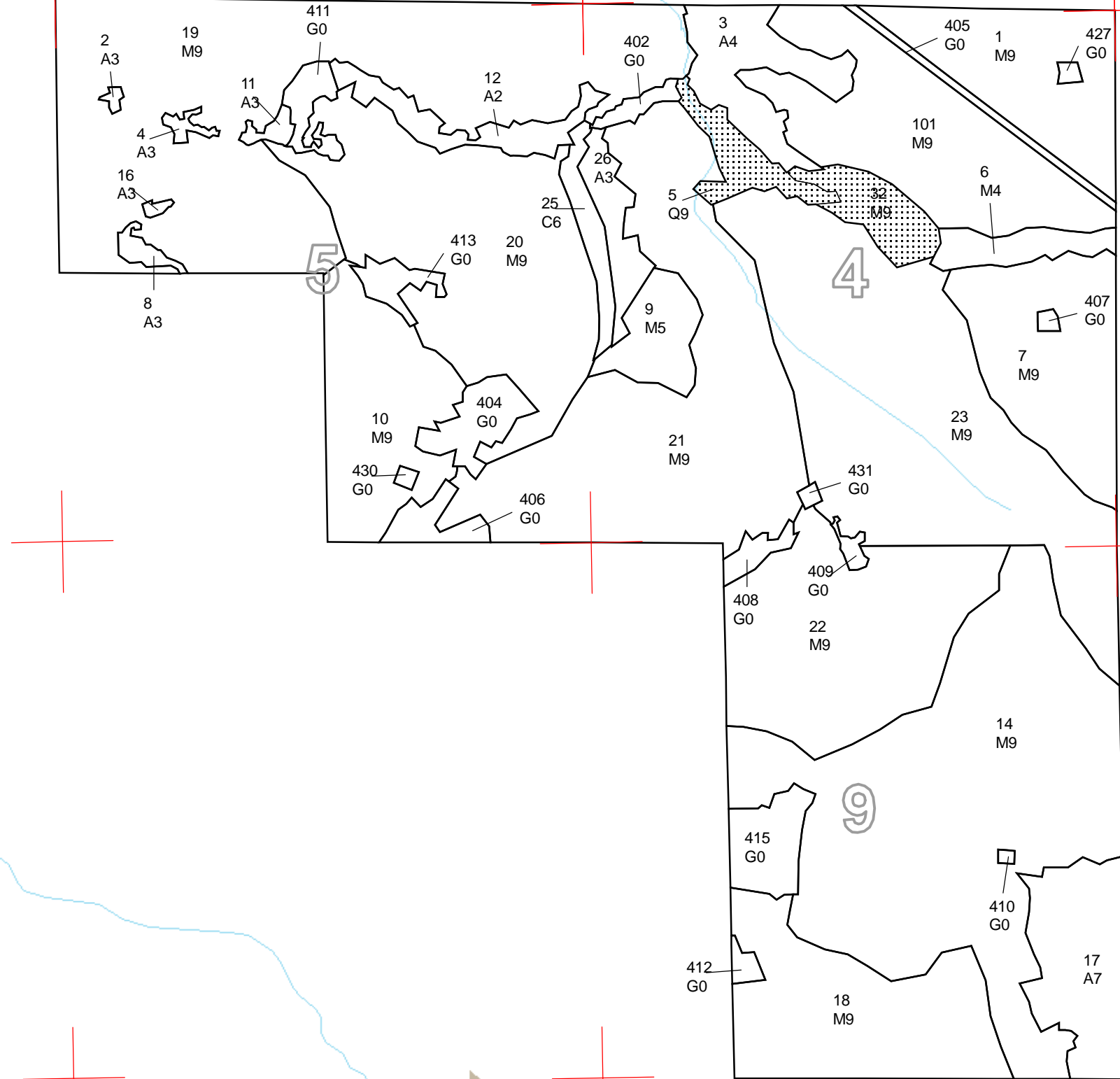
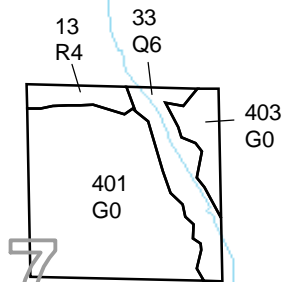
Dedicated & Proposed Special Conservation Area Map

Compartment 46
 T31N, R5W, Sec. 4, 5, 7, 9
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 Stand Examiner: Ric Barta
 Map Revised: 6/02/2009
 Map Phase: Pre-Review



Legend

- Miris Corners
- Stand Boundaries
- Proposed SCA
- Proposed SCA - Special Conservation Area
- Dedicated Special Conservation Areas**
- Dedicated Management Areas
- Cold Water Streams



84°59'0"W 84°58'0"W 84°57'0"W 84°56'0"W 84°55'0"W

45°70'N 45°60'N

84°59'0"W 84°58'0"W 84°57'0"W 84°56'0"W 84°55'0"W



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.