



**GAYLORD FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT: 42

ENTRY YEAR: 2010
Compartment Acreage: 3,053
County: CHARLEVOIX

Revision Date: 2/5/2008

Stand Examiner: Greg Gatesy

Legal Description: T33N R4W sections 22, 23, 24, 25, 27, 34, and 36

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: Emmet-Leelanaw and Emmet-Nester Association.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is split into two large blocks of State ownership. The west portion contains approximately 2000 acres and the east portion contains about 1000 acres. Private land between the two blocks is open farmland and wood lots.

Unique, Natural Features: The west portion of this compartment is on the upper most slopes of Chandler Hill which has an elevation change of approximately 500 feet in a mile. Very steep slopes of 70% are not unusual. The south eastern corner of the eastern block contains a small portion of Standard (Booth) Lake which is popular for dispersed camping.

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations: The very successful Standard Lake erosion control project was completed in 1991. Additional work is needed to improve the boat launch.

Watershed and Fisheries Considerations: This compartment is within both the Northern Lake Huron Management Unit and Central Lake Michigan Management Unit. I will restrict my comments to the portion within NLHMU. The portion of this compartment within NLHMU is within the West Branch Sturgeon River watershed, and contains a portion of Standard Lake. Prescribed management activities are appropriate for protection of this waterbody.

Wildlife Habitat Considerations: This area is primarily northern hardwoods. Oak and beech will be maintained to provide mast. One stand is being clearcut and this should help to provide structural and species diversity to the area.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of an end moraine of coarse-textured till. The glacial drift thickness varies between 200 and 800 feet. Beneath the glacial drift is the Devonian Antrim Shale. The Antrim is quarried for cement products elsewhere in the State. A gravel pit is located in Section 23 and potential is very good. The southern two-thirds of the Compartment are leased and being developed for the Antrim Shale.

Vehicle Access: Access is good throughout the compartment.

Survey Needs: The proposed treatments require very little survey work.

Recreational Facilities and Opportunities: This compartment contains an ORV trail, MCCS Trail and North Country Hiking Trail.

Fire Protection:

Additional Compartment Information: Stand 31 in the NWSE of section 27 has potential for red pine planting. The adjacent private is farmed for hay and other surrounding parcels are farmed as well so there is plenty of open ground adjacent for wildlife needs.

- **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

CHARLEVOIX COUNTY

COMPARTMENT: 42

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
Bog or Marsh	1																		1
Grass	138																		138
Non Stocked	32																		32
Oak									92										92
Red Pine					85														85
Upland Hdwds			55						120									2526	2701
Water	4																		4
Total	175		55		85				212									2526	3053

MACKINAW STATE FOREST

GAYLORD FOREST MGT UNIT

CHARLEVOIX COUNTY

COMPARTMENT: **42**

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
V Bog or Marsh			1																								1
G Grass					138																						138
X Non Stocked													32														32
O Oak														92													92
R Red Pine																85											85
M Upland Hdws																								2701			2701
Z Water																									4		4
Total			1		138								32	92		85								2701	4		3053

MACKINAW STATE FOREST

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COMPARTMENT: **42**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	24732 Cds	Hardwood	1576 Cds
Hardwood	17892 Mbf	Hardwood	2232 Mbf
Softwood	3672 Cds	Softwood	1224 Cds
Softwood	598 Mbf	Softwood	96 Mbf
Sum TotVol	65384 Cds	Sum CutVol	7456 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	780
3053			

GAYLORD FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 42

Entry Year: 2000

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status	
2	M9	80		66	northern hardwood	unevenaged	thinning	1			
comnts Fmd : Section 24, W1/2SE. Leave 3% -10% BA for retention.											
11	M9	122		55	northern hardwood	unevenaged	thinning	1			
comnts Fmd : THINNED 1993. Section 22 E1/2. Leave 3%-10% BA for retention.											
17	M9	63		74	northern hardwood	unevenaged	thinning	1		stand with fdf potential	
comnts Fmd : Section 36 NWNE. Leave 3%-10% BA for retention.											
18	M9	41		62	northern hardwood	unevenaged	thinning	1			
comnts Fmd : COMMERCIAL TIMBER SALE 1967-THINNED 1992. Section 36 SENW. Leave 3%-10% BA for retention.											
19	R6	85	45	60	red pine	immature	thinning	1		stand with fdf potential	
comnts Fmd : Section 36 E1/2. Row thinned in 1999. The 2010 thinning will require marking within the residual rows. No retention.											
23	M9	78		62	northern hardwood	unevenaged	thinning	1		stand with fdf potential	
comnts Fmd : THINNED 1992 2003 Changed acres due to update of stand 19. Section 36 W1/2SE. Leave 3%-10% BA for retention.											
25	M9	56		65	northern hardwood	unevenaged	thinning	1			
comnts Fmd : Section 34 SE. Leave 3%-10% BA for retention.											
29	M9	150		65	northern hardwood	unevenaged	selection	1			
comnts Fmd : Section 34 W1/2. (1998 comments: HARDWOOD POOR TO FAIR QUALITY RED OAK GOOD QUALITY.) Slugger Hardwood Sale #52-07-07-01. Reaaction. No retention required (sale prepared before 2007).											
49	M6	10		63	northern hardwood	unevenaged	final harvest	2			
comnts Fmd : Section 36 NENE. POOR TO FAIR QUALITY HARDWOOD 1998 2003 Acres changed due to update of stand 19.. 2007 remark:											
55	M9	61		68	northern hardwood	unevenaged	thinning	1			
comnts Fmd : Section 23 NWNW. Leave 3%-10% BA for retention.											
59	M9	4		65	northern hardwood	unevenaged	selection	1			
comnts Fmd : Section 34 NWSE. Leave 3%-10% BA for retention.											
102	M9	15		66	northern hardwood	unevenaged	thinning	1			
comnts Fmd : Section 24, S1/2NESE. Leave 3%-10% BA for retention.											
149	M6	11		63	northern hardwood	unevenaged	thinning	2			
comnts Fmd : Section 36 NENE. POOR TO FAIR QUALITY HARDWOOD 1998 2003 Acres changed due to update of stand 19.. 2007 remark: Leave BA 10-30%higher for retention.											
249	M6	4		63	northern hardwood	unevenaged	thinning	2			
comnts Fmd : Section 36 NENE. POOR TO FAIR QUALITY HARDWOOD 1998 2003 Acres changed due to update of stand 19.. 2007 remark: Leave BA 10-30%higher for retention.											
Total Acres.....		780									

**Proposed Treatments
With Limiting Factors**

Compartment: 42

Entry Year: 2010

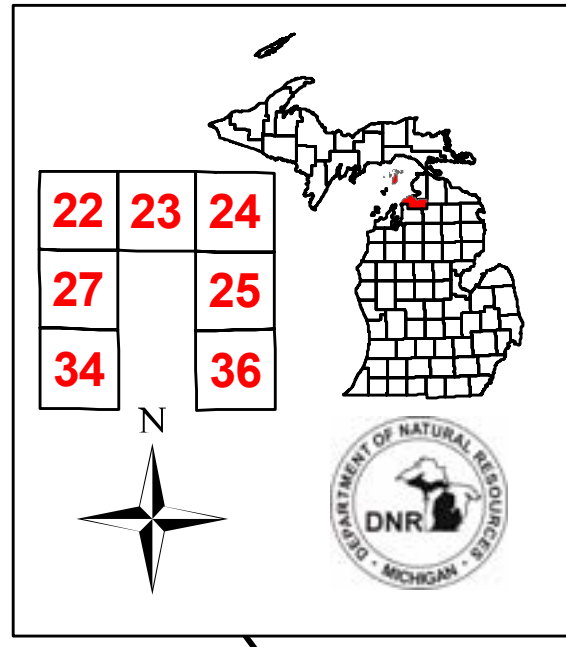
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

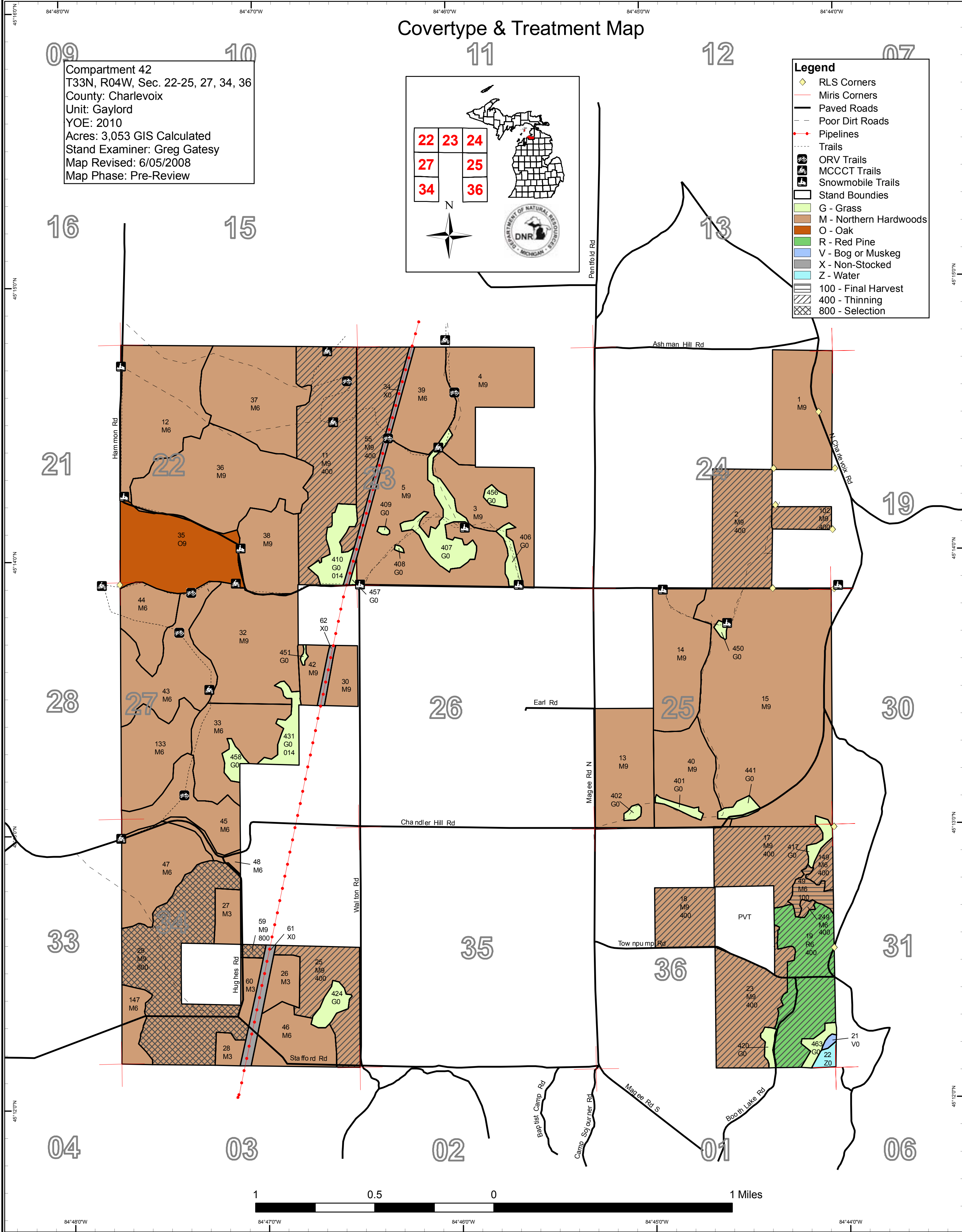
Covertypes & Treatment Map

Compartment 42
 T33N, R04W, Sec. 22-25, 27, 34, 36
 County: Charlevoix
 Unit: Gaylord
 YOY: 2010
 Acres: 3,053 GIS Calculated
 Stand Examiner: Greg Gatesy
 Map Revised: 6/05/2008
 Map Phase: Pre-Review



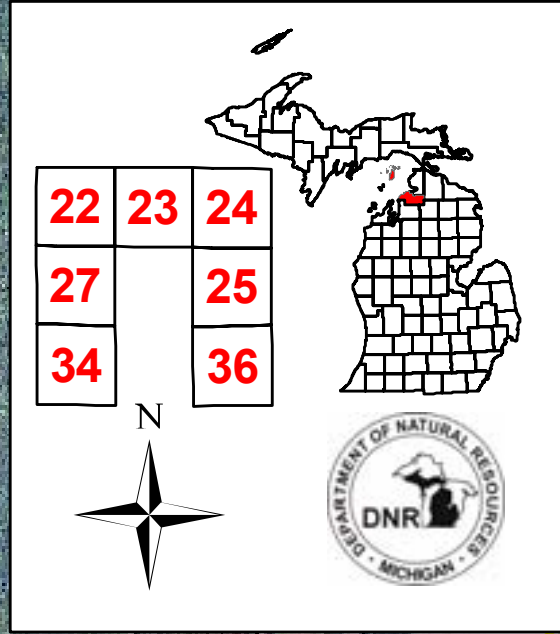
Legend

- ◆ RLS Corners
- Miris Corners
- Paved Roads
- - - Poor Dirt Roads
- Pipelines
- Trails
- ORV Trails
- MCCCT Trails
- Snowmobile Trails
- Stand Boundaries
- G - Grass
- M - Northern Hardwoods
- O - Oak
- R - Red Pine
- V - Bog or Muskeg
- X - Non-Stocked
- Z - Water
- 100 - Final Harvest
- 400 - Thinning
- 800 - Selection



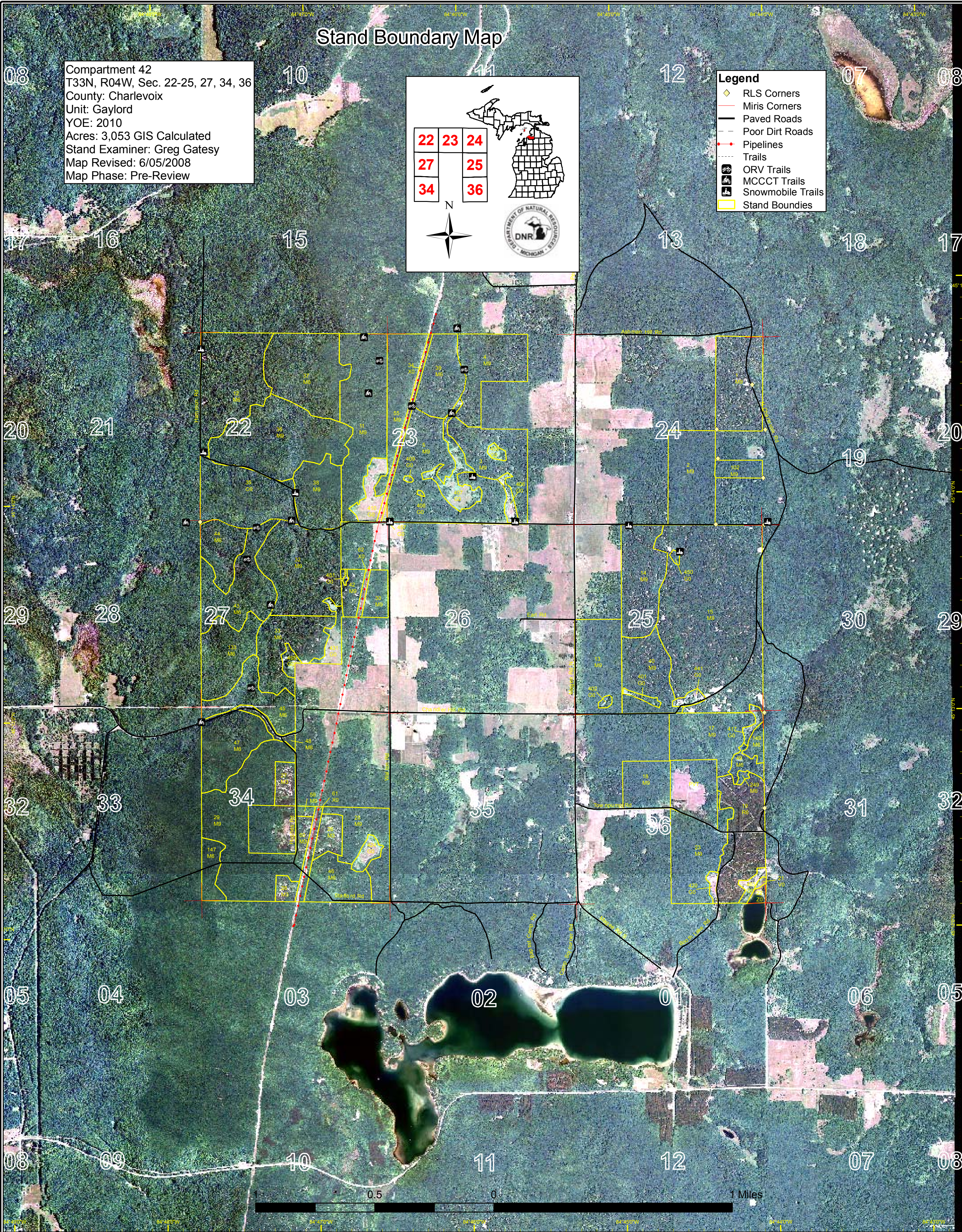
Stand Boundary Map

Compartment 42
 T33N, R04W, Sec. 22-25, 27, 34, 36
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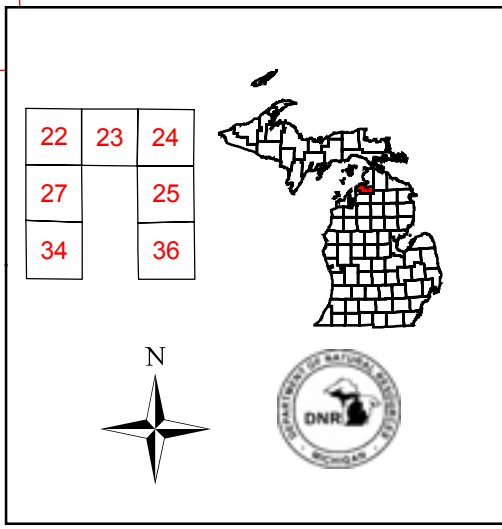
22	23	24
27		25
34		36

- Legend**
- RLS Corners
 - Miris Corners
 - Paved Roads
 - Poor Dirt Roads
 - Pipelines
 - Trails
 - ORV Trails
 - MCCCT Trails
 - Snowmobile Trails
 - Stand Boundaries



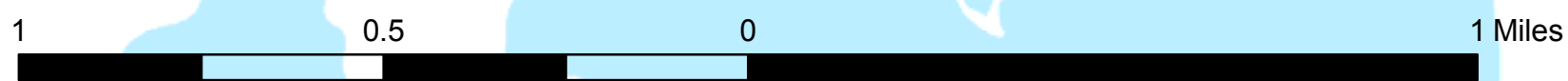
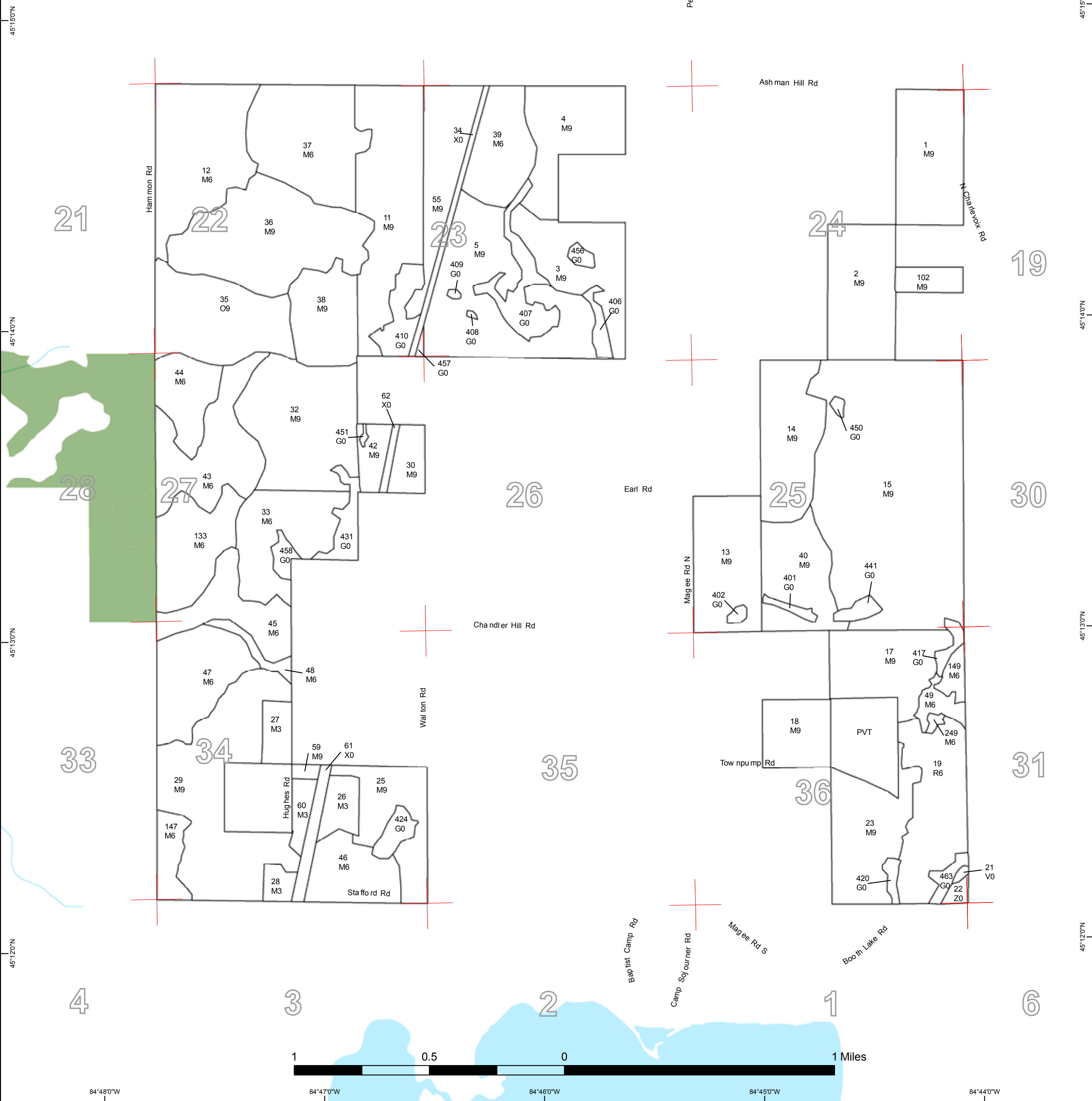
Dedicated & Proposed Special Conservation Area Map

Compartment 42
 T33N, R04W, Sec. 22-25, 27, 34, 36
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 Map Phase: Pre-Review



Legend

- + Miris Corners
- Cold Water Streams
- Cold Water Lakes
- Potential Old Growth Stands
- Stand Boundary



84°48'0"W 84°47'0"W 84°46'0"W 84°45'0"W 84°44'0"W

45°15'0"N
45°14'0"N
45°13'0"N
45°12'0"N

45°15'0"N
45°14'0"N
45°13'0"N
45°12'0"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	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	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.