



**FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 103 ENTRY YEAR: 2010**

**Compartment Acreage: 1063      County: Midland**

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**Draft**

**Revision Date:** April 28, 2008, Aug. 2008, 10/20/08

**Stand Examiner:** Steven Nyhoff

**Legal Description:** T15N, R1E, Sec. 24, 25  
T15N, R2E, Sec. 7, 18, 19, 30

**RMU (if applicable):** None

**Management Goals:**

The compartment is an even mix of uplands (aspen and oak) and lowlands. The lowlands are about 2/3 non-forested, being made up of lowland brush, leather leaf, and wet meadows, the other 1/3 is red maple.

Much of the uplands in the compartment have been treated in the past 30 years by a mixture of final harvests and shelterwood harvests. The sales have regenerated adequately, for the most part, with some small openings that are poorly stocked.

Because of the compartment's soil types and the poor vigor of the trees, harvesting should be done in late summer through winter in dry or frozen conditions. This is to maximize regeneration potential and minimize soil damage.

When managing the compartment continue to manage for the current cover types and look for opportunities to increase the diversity with retention.

**Soil and Topography:**

The main soil associations in the compartment are Pipestone and Covert Sand, Kingsville fine sand, and Kinross. Pipestone and Covert soils make up the driest areas, Kingsville soils are in moderate ground, and Kinross soils in the wettest areas. There are also Belleville soils in the Sturgeon Creek flood plain.

The terrain is generally flat with some amount of micro relief in the form of hummocky ground, especially on the Kingsville and Kinross soils. There are also some minor dune ridges present in the compartment, as well as large areas of lowland brush, leather leaf bogs, and wet meadows.

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

The state land is in three blocks that are surrounded, for the most part, by small private parcels. There is a subdivision along the east side of the state land in section 19.

**Unique, Natural Features (include only non-site specific and non-sensitive information):**

There are no known occurrences of endangered/threatened species in this compartment and none were located during the inventory process. There is a historical occurrence of *Carex seorsa* (sedge) to the southwest and a record of a Bald Eagle to the southwest.

**Archeological, Historical, and Cultural Features**

There is a record of a historical site within the compartment area.

## **Special Management Designations or Considerations:**

None

## **Watershed and Fisheries Considerations:**

The Sturgeon Creek and Dittmar Drain run through the compartment. Dittmar Drain is a man-made drainage that flows into the Sturgeon Creek. Sturgeon Creek is a natural creek and a warm water fishery. The creek is bordered by a large flood plain that is, for the most part, non-forested wetlands.

## **Wildlife Habitat Considerations:**

No major concerns noted. Continue to manage for traditional wildlife species.

## **Mineral Resource and Development Concerns and/or Restrictions:**

Surface sediments consist of lacustrine (lake) clay, silt, sand & gravel and dune sand. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift are the Pennsylvanian Grand River and Saginaw Formations. The Saginaw Formation is used for clay/shale in other areas of the State. This area is predominantly sand, and gravel potential in the compartment is considered limited. Larkin Field is located one mile to the east. The field produced over 36,000 BO from the Berea since 1935. All of the State lands in Sections 24 & 25 have been nominated for the October 2008 lease auction.

## **Vehicle Access:**

The state land south of Dittmar Drain has an extensive road system. Therefore, it has good access. North of Dittmar Drain some of the parcels are land locked or the roads into them are closed. On these properties, access is poor and the areas are currently being accessed on foot or by ORVs.

## **Survey Needs:**

No survey is needed at the current time

## **Recreational Facilities and Opportunities:**

There are no established recreational facilities in the compartment.

The state land, overall, is heavily used for hunting. The land south of Dittmar Drain is heavily used by 4x4 trucks or other recreational motorist. Some of these areas are showing signs of extensive resource damage; particularly stand 35. The state land north of Dittmar Drain are either landlocked or the roads into them are closed. These areas are being used by ORVs and horseback riders.

## **Fire Protection:**

Because of the extensive public use, the amount of landlocked parcels, and the urban interface, the possibility of fire starts is high. However, because of the terrain and the amount of low, wet ground the overall fire danger is moderate.

## **Additional Compartment Information:**

The area of state land south of Dittmar Drain is heavily trashed by the user of the area. Stand 35 is denuded of vegetation, for the most part, by 4x4 trucks and ORVs. This area looks likely to be expanded into stand 30 over the next 10 years.

Also, in section 19 the W1/2NE and the SENW were recommend for disposal and currently SENW has been approved at the field level for exchange.



11/3/2008 10:15:34 AM

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

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

MIDLAND COUNTY

COMPARTMENT: 103

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	207																										207
V Bog or Marsh			73																								73
G Grass					30																						30
L LowInd Brush									205																		205
N Marsh											40																40
X Non Stocked													2														2
O Oak														316													316
E Swamp Hrdwds																			186								186
W White Pine																									4	4	
<b>Total</b>	207		73		30				205		40		2	316					186						4	1063	

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

MIDLAND COUNTY

COMPARTMENT: **103**

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	3859 Cds	Hardwood	905 Cds
Hardwood	1096 Mbf	Hardwood	192 Mbf
Softwood	21 Cds	Softwood	13 Mbf
Softwood	32 Mbf	Sum CutVol	1315 Cds
Sum TotVol	6136 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	143
1063			

**GLADWIN FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 103 Entry Year: 2010**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
<b>7</b>	<b>A6</b>	19	76	69	aspen (upland)	mature	final harvest	1	natural regeneration		
<p>comnts Fmd : The stand has inclusions of low wet ground. The area was set up to be harvested last YOE but was not cut. The stand needs to be cut to maintain the aspen in the stand; if it is not cut this YOE, the aspen will be lost. This is because of low tree vigor. Therefore, if the stand is harvested cut it during the dormancy period. When harvesting the stand mark some oak and pine to retain for retention but do not retain more than 5% of the BA. If the sale cannot be harvest commercially habitat cut. The north east coner of the stand is down of a ridge and it is wetter. This area also needs to be harvested but rutting could be a peoblem. The stand is expected to regenerate as a mixed stand of aspen, oak and pine, if it does not regenerate interplant jack pine. The main soil type is Covert.</p>											
<b>36</b>	<b>O9</b>	4	100	70	oak	mature	final harvest	1	natural regeneration		
<p>comnts Fmd : This stand is a pocket of dry oak. The oak in the stand is mainly black and pin oak but there is some red, white and swamp white oak present. The main soil under the stand is Covert. The stand is expected to regenerate to a mixture of oak and maple, if not interplant red pine.</p>											
<b>116</b>	<b>O6</b>	81	75	60	oak	mature	shelterwood-seed	1	natural regeneration		
<p>comnts Fmd : The stand is a matrix of ridges and swales especially in the south end of the stand. Because of this, there are some very wet areas included in the stand as well as some drainages. The area was harvest in 1993 in which all the oak, pine and trees were retained. Now harvest the stand as a seed tree harvest retaining 10-20 BA of mainly oak. Also, retain some pine and other species for diversity. Because of the terrain, the stand will have to be harvest in dry or frozen condition to protect the soil. Lastly, try to set up the sale to minimize damage to advance regeneration.</p>											
<b>Total Acres.....</b>		<b>104</b>									

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
20	O6	39	60	60	oak	immature	seed tree	3	natural regeneration	

TREATMENT LIMITING FACTORS: Adjacent landowner denies access  
Blocked by other physical obstacle

comnts Fmd : The stand is dry for the most part except along stand 121. The species composition has more oak and aspen in it along Sturgeon Creek and goes to more maple along stand 121. Along the eastern, side of the stand has numerous draws that drain into the creek. The stand is land locked between Sturgeon Creek, Dittmer Drain, and private land. The area could be harvested if access could be gained. If harvested clearcut the stand retaining 10-20 BA and a buffer along the creek of about 50 feet. Along the drain, leave a buffer of 25 feet that should take it to the base of the spoil piles. If harvested it is expected to regenerate to a mix of aspen, oak and maple. The main soil type is Covert.

**Total Acres..... 39**

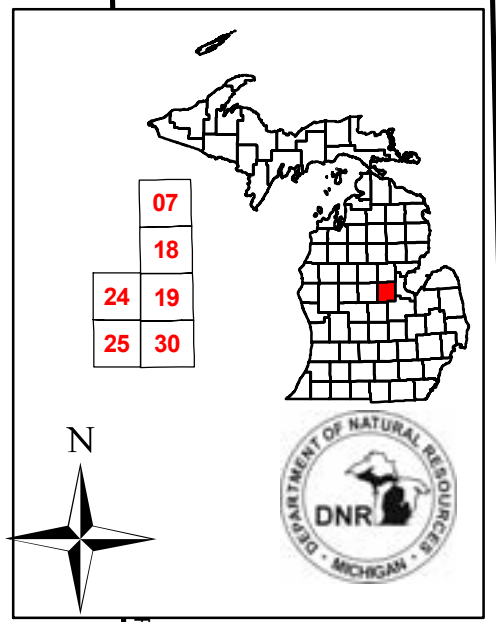
84:18:0"W

84:17:0"W

84:16:0"W

Compartment 103  
 T15N, R1E, Sec. 24, 25  
 T15N, R2E, Sec. 7, 18, 19, 30  
 County: Midland  
 Unit: Gladwin  
 YOE: 2010  
 Acres: 1,063 GIS Calculated  
 Stand Examiner: Steven Nyhoff  
 Map Revised: 10/28/2008  
 Map Phase: Pre-Review

# Covertypes & Treatment Map



## Legend

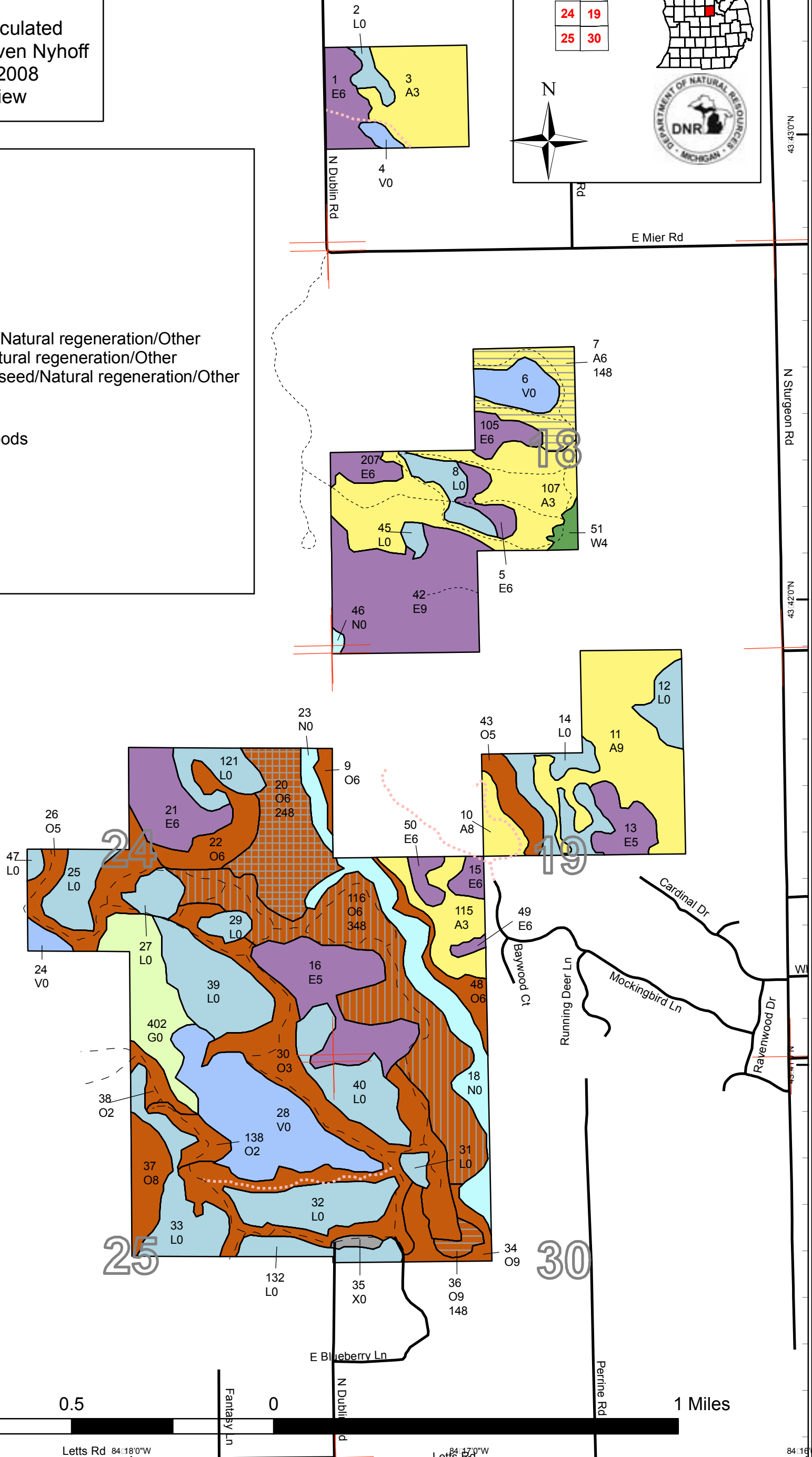
- Miris Corners
- Paved Roads
- Poor Dirt Roads
- Closed Roads
- Trails
- Stand Boundaries

## Treatments

- 148 - Final harvest/Natural regeneration/Other
- 248 - Seed tree/Natural regeneration/Other
- 348 - Shelterwood-seed/Natural regeneration/Other

## Cover Types

- A - Aspen
- E - Swamp Hardwoods
- G - Grass
- L - Lowland Brush
- N - Marsh
- O - Oak
- V - Bog or Muskeg
- W - White Pine
- X - Non-Stocked



43:43:0"N

43:43:0"N

43:42:0"N

43:42:0"N

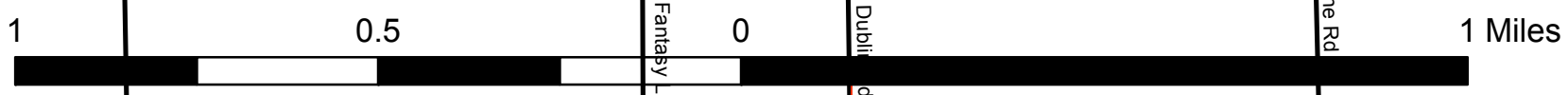
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
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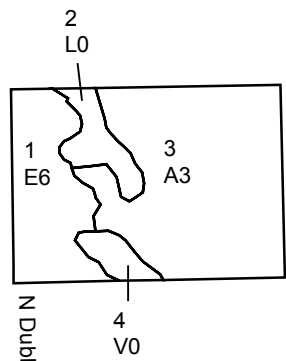


# Dedicated & Proposed Special Conservation Area Map

Compartment 103  
 T15N, R1E, Sec. 24, 25  
 T15N, R2E, Sec. 7, 18, 19, 30  
 County: Midland  
 Unit: Gladwin  
 YOE: 2010  
 Acres: 1,063 GIS Calculated  
 Stand Examiner: Steven Nyhoff  
 Map Revised: 10/28/2008  
 Map Phase: Pre-Review

**Legend**

-  Miris Corners
-  Stand Boundaries



7

7  
 18  
 24 19  
 25 30

N  
 DEPARTMENT OF NATURAL RESOURCES  
 DNR  
 MICHIGAN

43°43'0"N

43°43'0"N

43°42'0"N

43°42'0"N

43°41'0"N

43°41'0"N

Heyward Cir

N Stark Rd

E Blueberry Ln

Running Deer Ln

Mockingbird Ln

Ravenwood Dr

N Surgeon Rd

Pine Oak

Whippoorwill

Ta

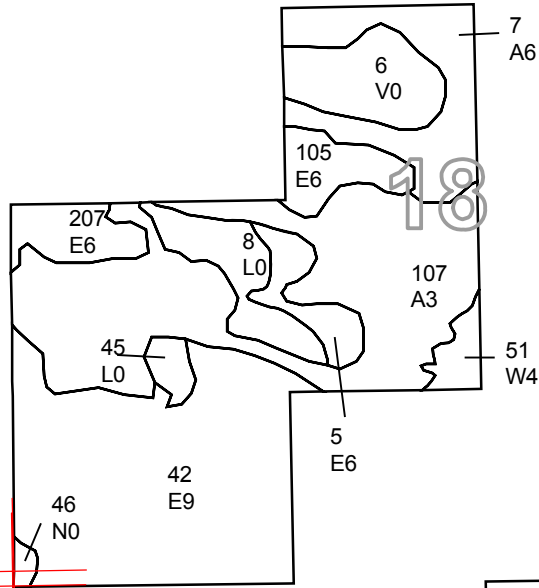
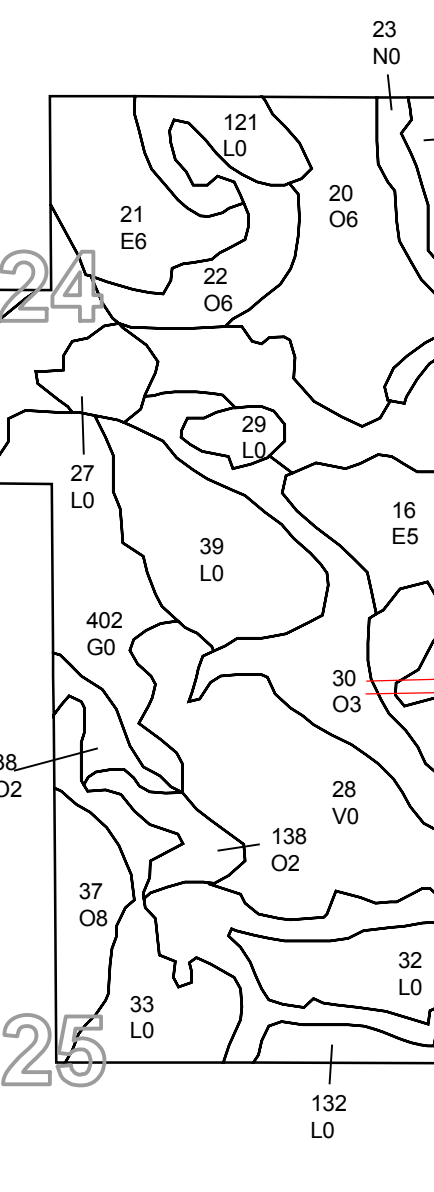


24

19

25

30



25

30

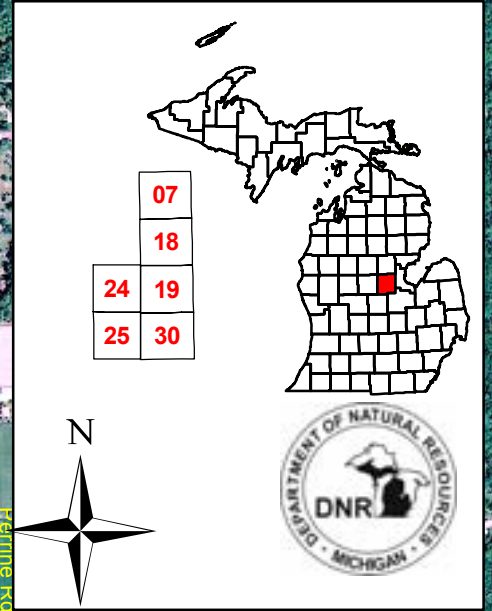
84°18'0"W

84°17'0"W

84°16'0"W

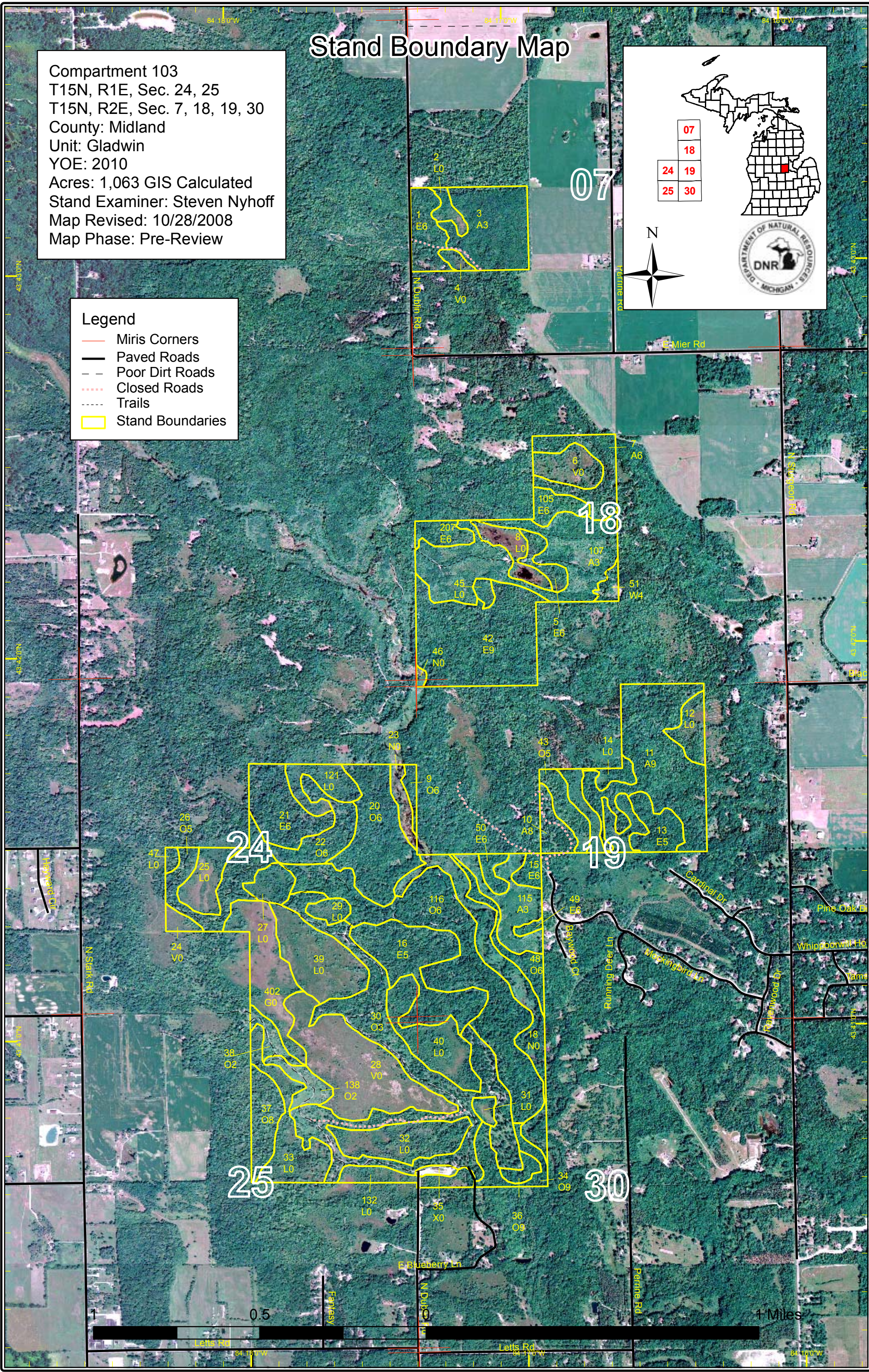
# Stand Boundary Map

Compartment 103  
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**Legend**

- Miris Corners
- Paved Roads
- Poor Dirt Roads
- Closed Roads
- Trails
- Stand Boundaries





**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.