



**FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 45 ENTRY YEAR: 2010

Compartment Acreage: 1268 County: Gladwin

Draft

Revision Date: August 2008, 10/20/08

Stand Examiner: Steven Nyhoff

Legal Description: T19N, R2E, Sections 1 and 2

RMU (if applicable):

Management Goals:

The aspen stands in the compartment have been heavily managed over the past 40 years. Therefore, much of the timber that can be managed has been. There are only a few isolated aspen stands left to be treated. The swamp hardwood stands have not been as heavily managed. The main reason for this is that these stands are on very wet soils that are inoperable. They will continue to be unmanaged unless technology is developed to harvest these stands without doing significant environmental damage.

Over the last two Years Of Entry (YOE) the aspen harvests have regenerated with mixed results due to wet soils, low site indexes, and poor tree vigor. Most have come back to a medium stocking level. In some of these stands, rutting was a major problem. Therefore, any harvesting done in the compartment should be done during dry or frozen conditions to minimize future rutting problems. Because of the many problems with soil, site indexes, and tree vigor, most aspen stands should be harvested early to increase the harvesting window and increase the chance of getting good regeneration.

Therefore, what stands have been scheduled for harvest this YOE are some of the isolated aspen stands that have not been treated before and several stands are scheduled for early harvests. Some stands in the compartment have already been set up for harvest in 2008 as per the 2008 compartment review (Sale Hard Luck, sale # 73-013-08-01). This sale is being held so stands 19, 32, and 117 can be added to it. This is being done to avoid green up issues brought on by Forest Certification.

Soil and Topography:

The terrain is flat with very little elevation change throughout the compartment, except south of the Sterling Truck Trail (STT).

In the compartment, 55% of the soils are poorly drained. These soils have standing water on them for extended periods; 20% of the soils are somewhat poorly drained. Therefore, 75% of the soils are prone to rutting. In addition, there is an extended interconnected wetlands system, which limits access to some stands.

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

This compartment is a solid block of state ownership. In addition, it is surrounded by state land.

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

In the compartment there is a known eagle nest. There are also records of Red-shoulder Hawks to the south and Doll's Merolonche (moth) to the northeast.

Archeological, Historical, and Cultural Features

The Hard Luck lumber camp was located in or near this compartment. It had an extensive system narrow gage railroad associated with it.

Special Management Designations or Considerations:

Most of the land in this compartment is part of the Lame Duck Foot Access Area (LDFAA), which lies north of the STT. This area is closed by Director's Order to all mechanically driven vehicles and horses with an exception for vehicles used in management. Therefore, much of the compartment is a High Conservation Value Area (HCVA).

Watershed and Fisheries Considerations:

The Molasses River flows through the western part of section 2. In addition, many of the lowland marsh and brush types feed into the Molasses River.

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) sand and gravel. The glacial drift thickness varies between 100 and 200 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 is considered limited. Limited oil and gas exploration has occurred in this compartment. There are no State oil and gas leases in the compartment currently.

Vehicle Access:

Much of the land is in the LDFAA, which is closed to mechanically driven vehicles. However, there is an established system of trails that can be used to access the area for management purposes. Most of the trails are gated and many are somewhat overgrown at the current time.

Survey Needs:

The compartment is surrounded by state land on all sides so no survey is needed at the current time.

Recreational Facilities and Opportunities:

The compartment is heavily hunted. Because of the hunting focus many areas have been set aside for parking and disperse camping to facilitate use of the area.

Fire Protection:

The compartment has no real fire prone species in it. However, the wet soils pose problems to fire equipment going off the existing trail. Therefore, initial attack is slowed. So overall, the fire danger for the compartment is moderate.

Additional Compartment Information:

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

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

GLADWIN COUNTY

COMPARTMENT: 45

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		9	123	97	67				34	17									347
Cedar													10						10
Grass	32																		32
Lowlnd Brush	283	68																	351
Lowlnd Poplr				53	23		10			8									94
Marsh	39																		39
Oak			4																4
Paper Birch										4									4
Swamp Hrdwds			34	44					11	31	81	26						142	369
Water	18																		18
Total	372	77	161	194	90		10		45	60	81	26	10					142	1268

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

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

GLADWIN COUNTY

COMPARTMENT: 45

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	347																										347
C Cedar				10																							10
G Grass					32																						32
L LowInd Brush									351																		351
P LowInd Poplr										94																	94
N Marsh											39																39
O Oak														4													4
B Paper Birch															4												4
E Swamp Hrdwds																				369							369
Z Water																									18	18	
Total	347			10	32				351	94	39			4	4					369						18	1268

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

GLADWIN COUNTY

COMPARTMENT: **45**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	6383 Cds	Hardwood	1926 Cds
Hardwood	1105 Mbf	Hardwood	86 Mbf
Softwood	239 Cds	Sum CutVol	2098 Cds
Softwood	20 Mbf		
Sum TotVol	8872 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	
1268		121	

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
4	A6	7	37	57	aspen (upland)	immature	final harvest	1	natural regeneration	
comnts Fmd : This stand is dry on the east and west ends but wet in the south central part. It should be harvested as a final harvest with reserves. The reserves should be in a pocket and be kept around 3%. In addition, it should be cut with stand 54 and 57 of compartment 42. Along the north edge there is a sparse A2 area that was included in this stand because of its small size. This stand is in the Lame Duck Foot Access Area and therefore is an HCVA.										
7	A5	4	25	55	aspen (upland)	immature	final harvest	2	natural regeneration	
comnts Fmd : It should be harvested as a final harvest with reserves. The reserves should be in a pocket and be kept around 3%. In addition, it should be cut with stand 63 of compartment 42. Along the north edge there is a sparse A2 area that was included in this stand because of its small size. This stand is in the Lame Duck Foot Access Area and therefore is an HCVA. The site indexes appear to increase going from west to east.										
10	A6	8	85	60	aspen (upland)	mature	final harvest	1	natural regeneration	
comnts Fmd : The stand has been set up for harvest as per the 2008 compartment review. The sale is Hard Luck; Sale Number 73-013-08-01. Stand was proposed for harvest at the 12/15/06 compartment review. The old growth designation was removed. This stand has been set up for harvest as per 2008 compartment review.										
11	P6	10	50	50	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	1	natural regeneration	
comnts Fmd : There is some mortality in the stand. The area is wet and has a ground cover of tag alder. Harvest the stand as a final harvest with reserves during dry or frozen conditions. The retention should be in pockets that are around 3%. The stand is expected to regenerate, if not seed to jack pine. This stand is in the Lame Duck Foot Access Area and therefore is an HCVA.										
17	A5	17	72	55	aspen (upland)	mature	final harvest	1	natural regeneration	
comnts Fmd : Stand was proposed for harvest at the 12/15/06 compartment review. The old growth designation was removed. This stand has been set up for harvest as per 2008 compartment review. The sale is called Hard Luck; Sale Number 73-013-08-01. Part of the stand was left along the south edge to protect the cedar in stand 18.										
19	A6	23	35	60	aspen (upland)	mature	final harvest	1	natural regeneration	
comnts Fmd : The stand has undulating topography. It can be final harvested with retention. The retention should be kept in pockets and be kept around 3%. In addition, when harvesting no one species should be retained, especially pine. Pine is starting to seed into the stand and it will, overtime overtake it if left untreated. The stand is expected to regenerate as an aspen stand mixed with some pine, oak, and maple. Put the stand on the 2009 POW to be added to Hard Luck timber sale; sale number 73-013-08-01. This is being done to avoid any green up issues.										
32	A6	18	35	60	aspen (upland)	immature	final harvest	1	natural regeneration	
comnts Fmd : The stand is undulating and the site indexes are variable. Harvest the stand as a final harvest with reserves, retaining some of the large oaks for mast. In addition, the remainder of the retention should be in pockets and be kept around 3%. The stand will have to be held for 5 years before harvesting because of green up issues with stand 17. Put the stand on the 2009 POW to be added to Hard Luck timber sale; sale number 73-013-08-01. This is being done to avoid any green up issues. The stand is expected to regenerate to aspen mixed with maple and oak, if it does not regenerate interplant red pine.										
110	P9	6	85	60	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	1	natural regeneration	
comnts Fmd : The stand is low overall but it needs to be harvested. The soils are variable with some areas being very wet and other areas being dry. When the stand is harvested, do a final harvest with reserves in dry or frozen conditions. The retention should be in pockets and be kept around 3%. The stand is expected to regenerate to a mixture of aspen and swamp hardwoods, if not interplant or seed with jack pine. This stand is in the Lame Duck Foot Access Area and therefore is an HCVA.										
117	A5	17	72	50	aspen (upland)	immature	final harvest	1	natural regeneration	
comnts Fmd : This stand has some residual scattered oak. The ground is hummocky and there is a mixture of uplands and lowlands. The majority of the stand is upland. Harvest the stand as a final harvest with reserves in the form of retention pockets that should be kept around 3%. Put the stand on the 2009 POW to be added to Hard Luck timber sale; sale number 73-013-08-01. This is being done to avoid any green up issues. The stand is expected to regenerate naturally to aspen mixed with maple and oak, if not interplant with red pine. This stand is in the Lame Duck Foot Access Area and therefore is an HCVA.										
210	A6	9	85	60	aspen (upland)	mature	final harvest	1	natural regeneration	
comnts Fmd : The stand has been set up for harvest as per the 2008 compartment review. The sale is Hard Luck; Sale Number 73-013-08-01. In addition, part of the southeast corner of the stand was left to buffer the cedar in stand 18. Stand was proposed for harvest at the 12/15/06 compartment review. The old growth designation was removed. This stand has been set up for harvest as per 2008 compartment review.										

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
310	P9	2	85	60	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	1	natural regeneration	

comnts Fmd : The stand is low overall but it needs to be harvested. The soils are variable with some areas being very wet and other areas being dry. When the stand is harvested, do a final harvest with reserves in dry or frozen conditions. The retention should be in pockets and be kept around 3%. The stand is expected to regenerate to a mixture of aspen and swamp hardwoods, if not interplant or seed with jack pine.

Total Acres..... 121

**Proposed Treatments
With Limiting Factors**

Compartment: 45

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:

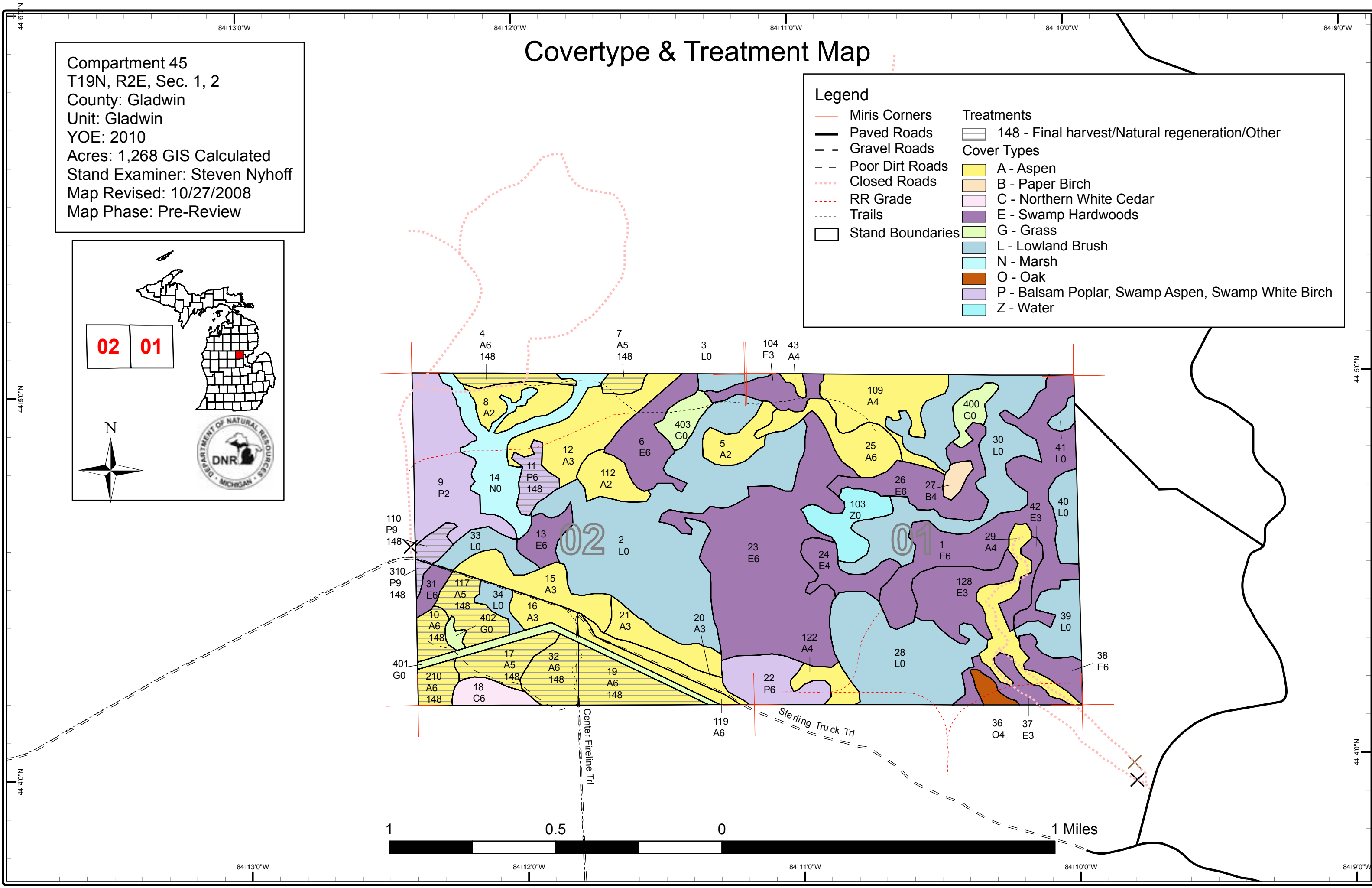
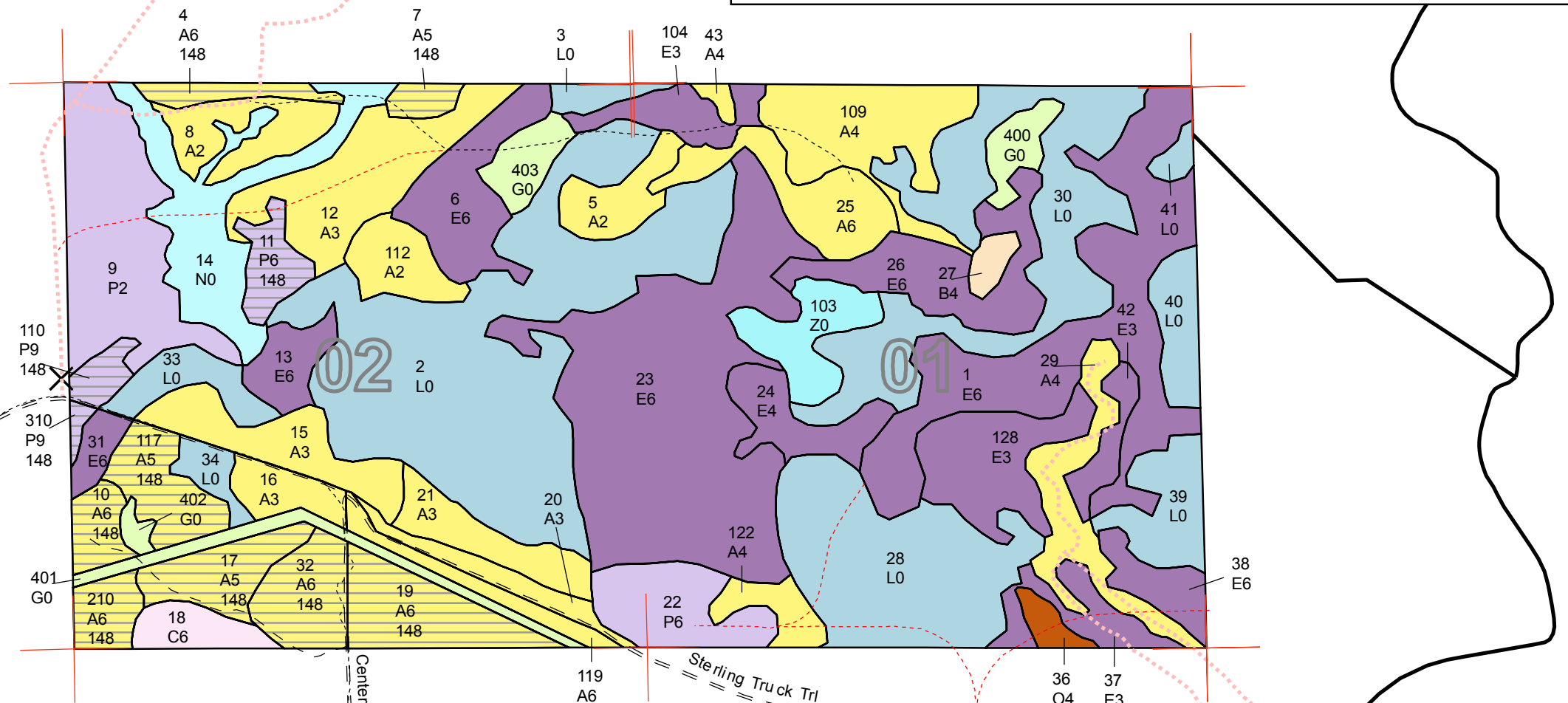
Total Acres..... 0

Compartment 45
 T19N, R2E, Sec. 1, 2
 County: Gladwin
 Unit: Gladwin
 YOY: 2010
 Acres: 1,268 GIS Calculated
 Stand Examiner: Steven Nyhoff
 Map Revised: 10/27/2008
 Map Phase: Pre-Review

Covertypes & Treatment Map

Legend	
	Miris Corners
	Paved Roads
	Gravel Roads
	Poor Dirt Roads
	Closed Roads
	RR Grade
	Trails
	Stand Boundaries
	Treatments
	148 - Final harvest/Natural regeneration/Other
	Cover Types
	A - Aspen
	B - Paper Birch
	C - Northern White Cedar
	E - Swamp Hardwoods
	G - Grass
	L - Lowland Brush
	N - Marsh
	O - Oak
	P - Balsam Poplar, Swamp Aspen, Swamp White Birch
	Z - Water

02 01



Stand Boundary Map

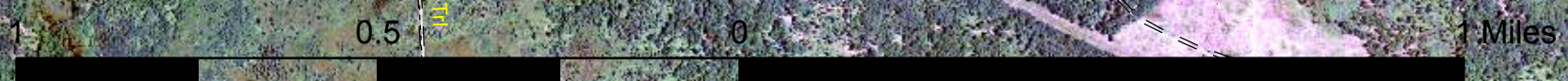
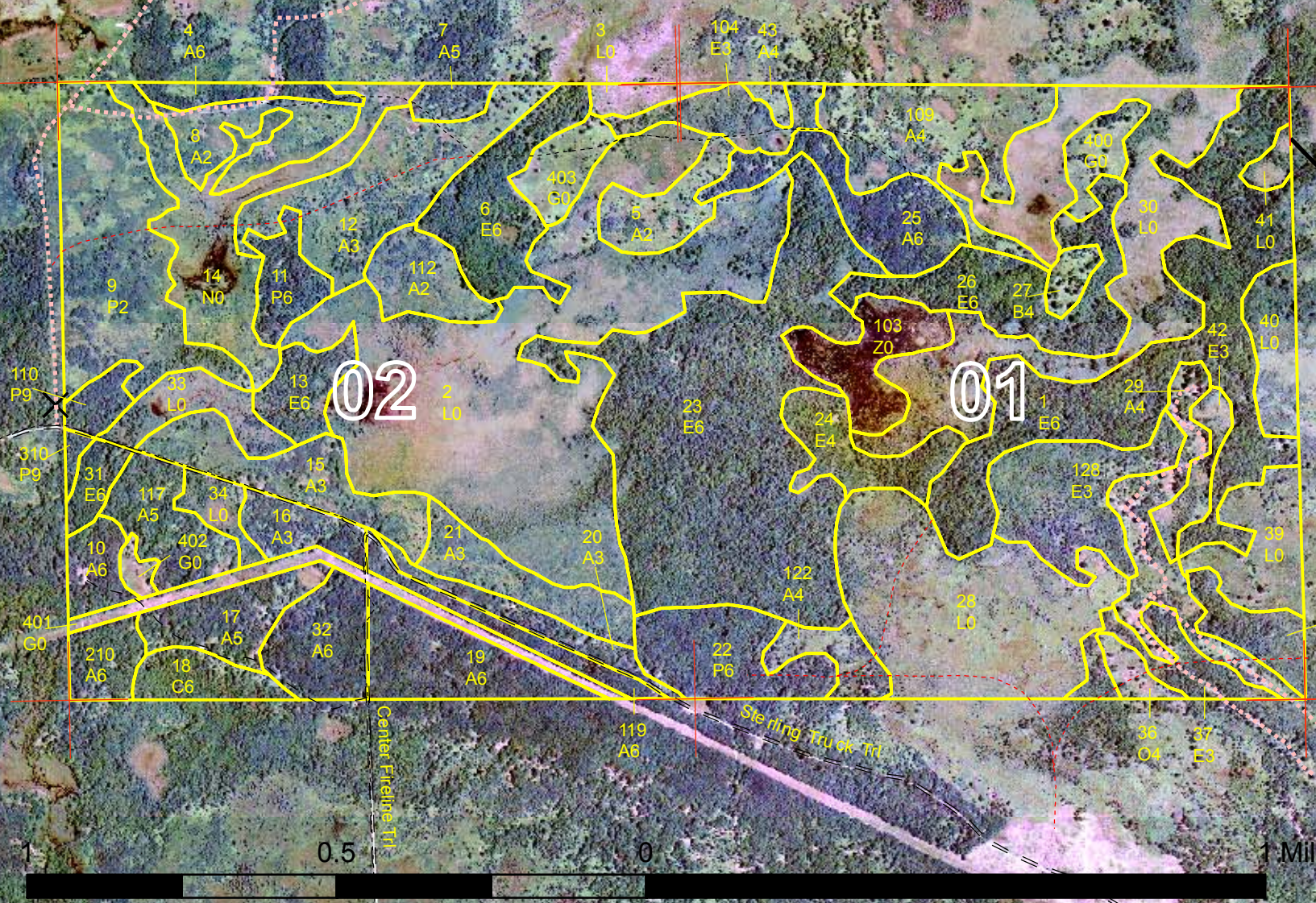
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- Legend**
- Miris Corners
 - Paved Roads
 - Gravel Roads
 - Poor Dirt Roads
 - Closed Roads
 - Trails
 - RR Grade
 - Trails
 - Berm
 - Gate
 - Stand Boundaries

02 01

N

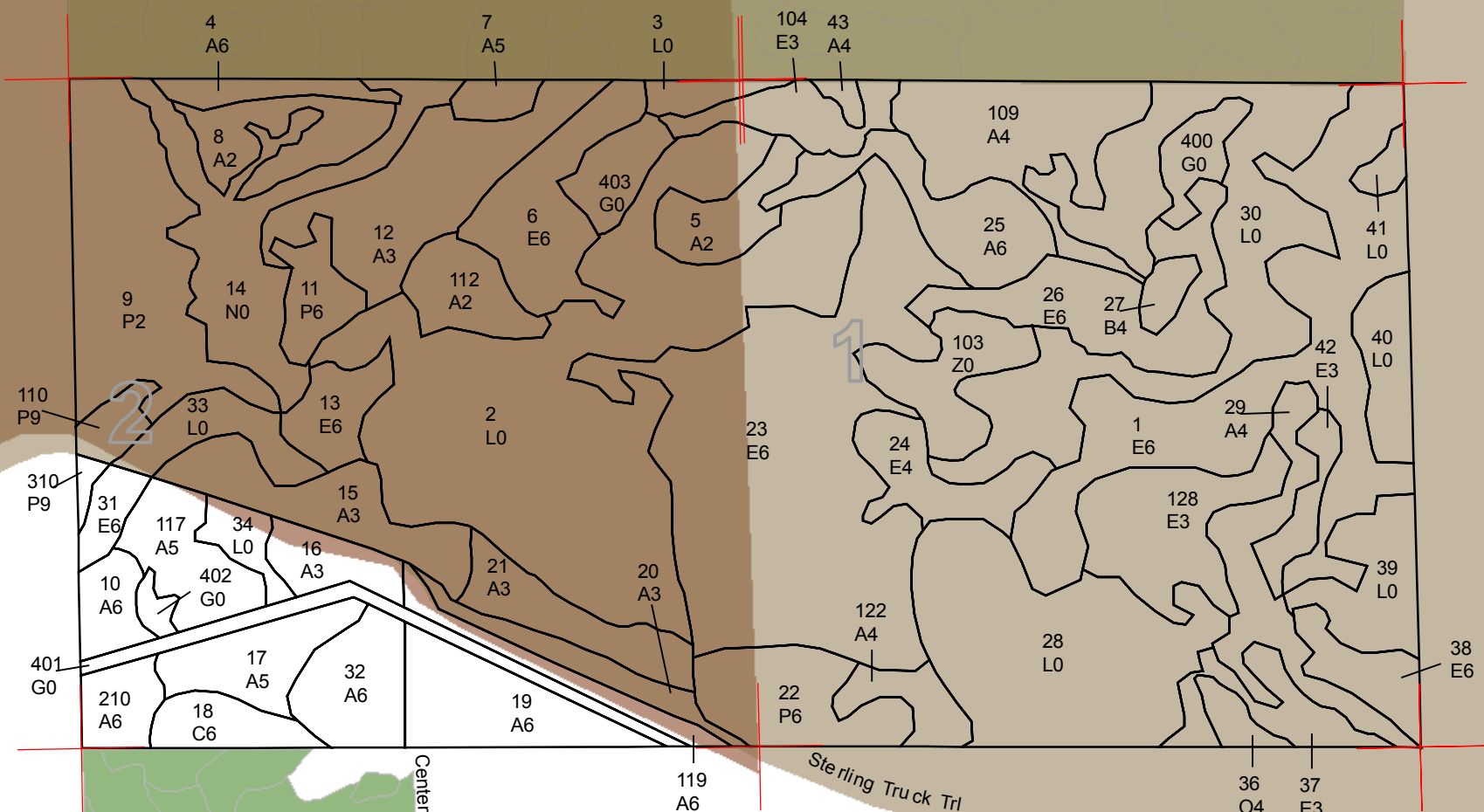
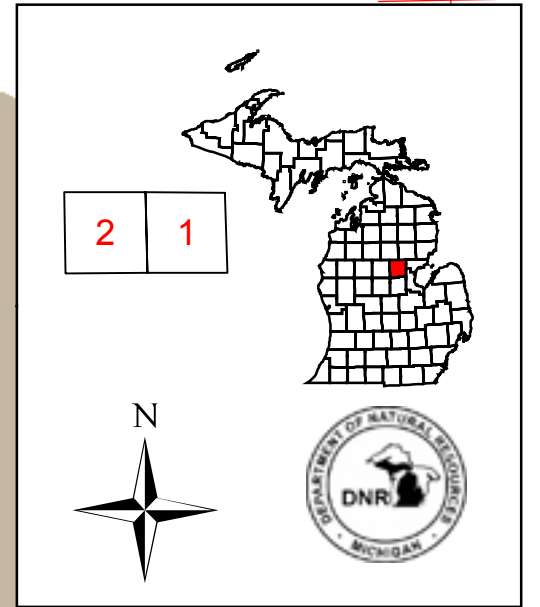
DNR
DEPARTMENT OF NATURAL RESOURCES
MICHIGAN



Dedicated & Proposed Special Conservation Area Map

Compartment 45
 T19N, R2E, Sec. 1, 2
 County: Gladwin
 Unit: Gladwin
 YOE: 2010
 Acres: 1,268 GIS Calculated
 Stand Examiner: Steven Nyhoff
 Map Revised: 10/27/2008
 Map Phase: Pre-Review

- Legend**
- Miris Corners
 - Dedicated Special Conservation Areas
 - Dedicated Management Areas
 - Potential Old Growth Stands
 - OI Special Conservation Areas
 - Wildlife Management Areas



84°13'0"W 84°12'0"W 84°11'0"W 84°10'0"W 84°9'0"W

44°50'N

44°50'N

44°40'N

44°40'N

Center Fireline Trl

Sterling Truck Trl



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	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.