



**FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 12 ENTRY YEAR: 2011

Compartment Acreage: 3652 County: Clare

Revision Date: March 2009, June 2009, Oct. 2009

Stand Examiner: Steven Nyhoff

Legal Description: T20N R5W Sections 22, 23, 26-28, 33-35

RMU (if applicable):

Management Goals:

This compartment is a large block of state ownership that contains part of the Floodwood Swamp and flooding. As such, it has extensive marsh complexes; and large cedar and black ash swamps.

The management for the past 40 years has been focused on aspen and oak mainly with some small cedar and swamp hardwoods harvest. The regeneration from these past harvests have been good generally.

Continue to manage the compartment for the current cover types. Some of the prescribed aspen harvest should be confined to the dormancy period because of the aspen's age. In the oak stands look to do treatments that will discourage maple, choke cherry, and balsam fir. This may require prescribed burns or herbicide treatments. In addition, many of the red pine stands have a medium to well-stocked layer of advanced oak regeneration. The harvesting of these stands will convert them to oak. In stands where regeneration is not sufficient interplant them with red pine to keep diversity in the compartment.

Soil and Topography:

The terrain in the compartment is variable with large areas that are flat with significant micro relief to areas of undulating land.

The soils are also variable, but there are large areas of very wet soils being heavy to mucky soils. The soil types in these lowlands are Markley Muck, Lipton Muck, Histosols, and Roscommon soil. The soils on the upland area are a mixture of Grayling sand, Mancelona loamy sand, Graycalm sand, Croswell sand, and Rubicon sand.

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

The compartment is a solid block of state ownership. The private lands in the area are used for both permanent residences and recreational properties.

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

There are no known occurrences within the compartment boundary. However, the compartment is within the Kirtland Warbler (KW) Management Area. In addition, there are numerous occurrences of endangered/threatened species near the compartment, KW occurs to the northwest, Secretive Locust northwest and northeast, Red-legged Spittlebug to the north, Hills Thistle to the North, and Red-shoulder Hawk to the east.

Archeological, Historical, and Cultural Features

There are no known locations and none were detected during the inventory process.

Special Management Designations or Considerations:

This area is within the KW management area. However, much of the area is considered non-critical habitat.

It was noted during the inventory process that most of the regenerating stands had heavy deer browse. Species that were browsed willow, oak, maple, aspen, white pine, and jack pine.

Watershed and Fisheries Considerations:

The compartment is part of the Floodwood Swamp and it drains into Floodwood Creek. The creek has a control structure on it just to the north of the compartment. This structure controls the flooding that influences the northwest end of the compartment.

Wildlife Habitat Considerations:

This area offers an excellent diversity in cover types and wildlife species – **probably one of the better wildlife compartments**. The Fur Farm Flooding is partially positioned within Compartment 12. Habitat conditions are present for waterfowl, marsh, shore, wading, song and birds of prey. Trappers typically find all the common furbearer species present, while hunters annually pursue grouse, woodcock, deer, cats and bears throughout this area. Designated Kirtland Warbler sections are located to the immediate northwest of the above flooding. Recent spring surveys, within Compartment 12, have not substantiated occupied use of age specific Jack Pine stands needed by this rare warbler.

Access is good but not excessive. Illegal ORV use is limited when compared to other compartments. Wildlife Division has invested substantially into the maintenance of the primary ingress/egress corridor off Jackson Avenue.

Two Wildlife Division gates have been installed to protect five annually maintained openings. Stands 32 and 63 are prescribed for treatment – both are final harvests. These stands border the above openings. Winter cuts are preferred in these identified stands (numerous corrugated steel tubes are present and should be protected). Retention considerations should include a ½ - 1 chain buffer positioned adjacent to the wildlife openings (no decking/landing areas will be established in these sites). Wildlife Div. personnel would like to be consulted when the retention components are implemented.

Stand 106 comprises one of the largest cedar stands in Clare County. Wildlife staff would like to retain a management prescription that would allow for annual checker-board cuts for the duration of the 2011 YOE (two – five acres of cedar would be cut each **winter**). Access for any established winter sale would occur off an existing snowmobile trail that traverses this stand and originates just west of Old State Road.

Several stands may be treated with DRIP funds – one site will require a joint FMFM/Wildlife Div. field review.

Mineral Resource and Development Concerns and/or Restrictions:

The northern portion of the compartment lies within the Cranberry Gas Storage Field. There are a couple of gas wells and the associated pipelines and access roads are scattered in the northern third of the compartment. Many of the pipelines, access roads, and gas well sites are under long-term lease agreements with Consumers Energy.

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured till. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift are the Pennsylvanian Saginaw and Grand River Formations. The Saginaw Formation is used for clay/shale for brick making in other areas of the State. A gravel pit is located in Section 14 and there is gravel potential. Cranberry Lake Field is located just to the north of the Compartment and has gas storage and secondary recovery operations currently. It also has gas production from the Prairie du Chien. All of the State lands were leased for oil and gas exploration in 2008 and a few parcels are also leased for gas storage.

Vehicle Access:

The access is good to the interior of the compartment. The main access is off Jackson Road to the west. This access allows ingress to much of the interior of the area. There are also numerous two tracks off Old Stand Ave., Arnold Lake Rd., and Haskell Lake Rd. to provide ingress to the edges of the compartment.

Survey Needs:

The area has had significant state and private surveys done so there is no need at the current time.

Recreational Facilities and Opportunities:

There are no established facilities. However, the area is heavily used for hunting of deer, waterfowl, and small game.

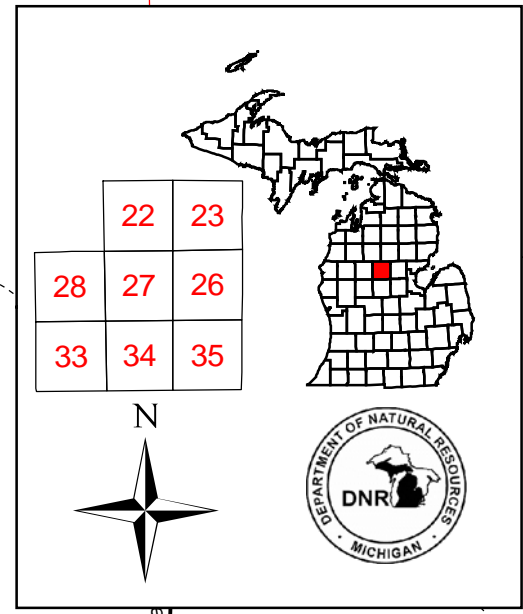
Fire Protection:

The access to the compartment is generally good. In addition, the variety of forested cover types mixed with extensive non-forested wetland will hinder fire development. Therefore, the potential for fire is low to moderate.

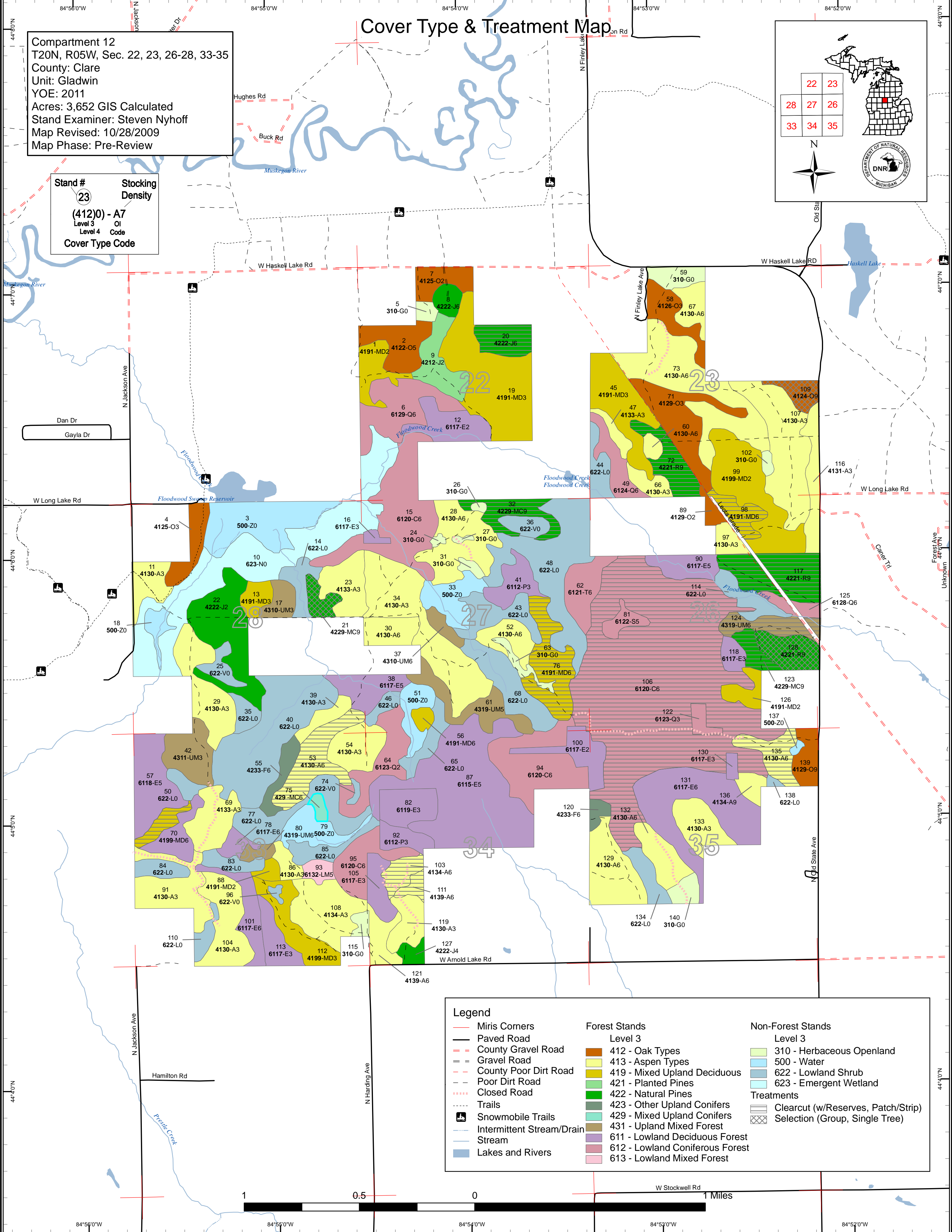
Addition Information:

Cover Type & Treatment Map

Compartment 12
 T20N, R05W, Sec. 22, 23, 26-28, 33-35
 County: Clare
 Unit: Gladwin
 YOE: 2011
 Acres: 3,652 GIS Calculated
 Stand Examiner: Steven Nyhoff
 Map Revised: 10/28/2009
 Map Phase: Pre-Review



Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



Legend		
	Miris Corners	
	Paved Road	
	County Gravel Road	
	Gravel Road	
	County Poor Dirt Road	
	Poor Dirt Road	
	Closed Road	
	Trails	
	Snowmobile Trails	
	Intermittent Stream/Drain	
	Stream	
	Lakes and Rivers	
Forest Stands		
Level 3		
	412 - Oak Types	
	413 - Aspen Types	
	419 - Mixed Upland Deciduous	
	421 - Planted Pines	
	422 - Natural Pines	
	423 - Other Upland Conifers	
	429 - Mixed Upland Conifers	
	431 - Upland Mixed Forest	
	611 - Lowland Deciduous Forest	
	612 - Lowland Coniferous Forest	
	613 - Lowland Mixed Forest	
Non-Forest Stands		
Level 3		
	310 - Herbaceous Openland	
	500 - Water	
	622 - Lowland Shrub	
	623 - Emergent Wetland	
Treatments		
	Clearcut (w/Reserves, Patch/Strip)	
	Selection (Group, Single Tree)	

