



**NEWBERRY FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 95 ENTRY YEAR: 2011**

**Compartment Acreage: 1886 Acres (GIS Calculated) County: Luce**

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**Revision Date: 10/1/09**

**Stand Examiner: Keith Magnusson**

**Legal Description: T46N R12W Sec. 6, 7, 18**

**RMU (if applicable):**

**Management Goals:** Timber management, wildlife habitat and recreation are the main uses of this area. The goal is to manage for all of these simultaneously and to provide, enhance and perpetuate their uses. Maintain the existing mixtures of forest of forest cover types and enhance age class diversity in these forest cover types through continued timber harvest treatments and cultivation treatments. Maintain habitat, species, age class and structural diversity.

**Soil and Topography:** Soil type is primarily Rubicon, Kalkaska, Vilas and Wallace sands in the uplands and Carbondale and Marky mucks in the lowlands. The compartment is level to rolling in the sand plain uplands and mostly level in the lowlands.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The compartment is entirely state land and is predominately surrounded by state land on the north, east and south borders with the exception of a private parcel on the southwest edge of the compartment. Schoolcraft County line borders the west edge of the compartment where that property is primarily privately owned. The area has been managed for timber production in the past as well as wildlife habitat. The compartment is used for an assortment of recreational opportunities but mostly hunting. Most of the private land parcels around the compartment have hunting camps/cabins on the property.

**Unique, Natural Features (include only non-site specific and non-sensitive information):** Michigan Natural Features Inventory (MNFI) has identified sharp-tailed grouse in the compartment. They list the potential for great blue heron rookery, eagle, and osprey as well as potential for moose, wolf and wood turtle. The northeast corner of the compartment was identified as pine barrens in pre-settlement survey notes.

**Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):** The Bureau of History does not list any known historical sites in this compartment.

**Special Management Designations or Considerations:** Maintain the existing mixtures of forest cover types and enhance age class diversity in these forest cover types through continued forest management to promote habitat for existing upland birds and animals.

**Watershed and Fisheries Considerations:** Fisheries Values

Good. Spring Creek Pond is supporting a good population of brook trout. In addition, the small streams to the south are headwaters of Deer Creek (SQCW), which flows into the E. Br. Fox River (FQCW). Those

small headwater tributaries should be protected from sand erosion, which would eventually end up in the E. Br. Fox.

**Wildlife Habitat Considerations:** Compartment 95 lies in western Luce county and is lies within the Seney Sand Lake Plain ecological sub-subsection. The compartment consists largely of immature jack pine, aspen and red pine primarily with significant amounts of spruce and white pine in the southern section of the compartment. Numerous creeks and drainages run throughout the southern portions of the compartment and make excellent travel corridors for wildlife.

Limited amounts of harvest will be occurring in the compartment and wildlife objectives are to maintain the species and structural diversity within the stand. Wildlife den and nest trees and snags will be preserved as well as mature canopy trees of various species. Wildlife species expected to utilize this compartment include white-tailed deer, black bear, coyotes, wolves, ruffed and sharptailed grouse.

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

Sections 6, 7 & 18, T46N-R12W, Luce County

Surface sediments consist of glacial outwash sand & gravel and postglacial alluvium and peat & muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Utica Shale subcrops below the glacial drift. The Utica does not have a current economic use. No gravel pits are located in the area, but there could be some potential. There is no economic oil and gas production in the UP.

**Vehicle Access:** Primary access to the compartment is County Road 421, Danaher Plains Road and Spring Creek Road. There are several sand two tracks throughout the compartment.

**Survey Needs:** None at this time.

**Recreational Facilities and Opportunities:** There is a designated ORV trail in the northwest corner of the compartment. Hunting, fishing, wildlife viewing, dispersed camping, blueberry picking and snowmobile riding opportunities exist within the compartment.

**Fire Protection:** Large fire runs are possible in the hazard fuel types in the northern portion of this compartment. The risk to private properties in the southern portion would be low. Suppression efforts with heavy wheeled equipment would be good in the northern part of the compartment and be more challenging in the southern part.

**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

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

LUCE COUNTY

COMPARTMENT: 95

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		6	335				14											85	440
Black Spruce								224											224
Grass	62																		62
Hemlock																		43	43
Jack Pine			184		186	6	33												409
Lowlnd Brush	104																		104
Mx Swmp Cnfr				26				101											127
Red Pine						298													298
Swamp Hrdwds								17											17
Upland Hdwds																		41	41
Water	2																		2
White Pine																		119	119
<b>Total</b>	<b>168</b>	<b>6</b>	<b>519</b>	<b>26</b>	<b>186</b>	<b>304</b>	<b>47</b>	<b>342</b>										<b>288</b>	<b>1886</b>

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

LUCE COUNTY

COMPARTMENT: 95

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	440																										440	
S Black Spruce		224																										224
G Grass					62																							62
H Hemlock						43																						43
J Jack Pine							409																					409
L Lowlnd Brush									104																			104
Q Mx Swmp Cnfr												127																127
R Red Pine							132									166												298
E Swamp Hrdwds																				17								17
M Upland Hdwds																									41			41
Z Water																										2		2
W White Pine																											119	119
<b>Total</b>	<b>440</b>	<b>224</b>			<b>62</b>	<b>43</b>	<b>541</b>		<b>104</b>			<b>127</b>				<b>166</b>				<b>17</b>					<b>41</b>	<b>2</b>	<b>119</b>	<b>1886</b>

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

LUCE COUNTY

COMPARTMENT: **95**

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	1404 Cds	Softwood	1901 Cds
Hardwood	23 Mbf	Softwood	51 Mbf
Softwood	10646 Cds	Sum CutVol	2003 Cds
Softwood	421 Mbf		
Sum TotVol	12938 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	132
1886			

**NEWBERRY FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 95**

**Entry Year: 2001**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
8	R6	132	50	56	jack pine	immature	final harvest	2	planting	

comnts Fmd : Stand has never been thinned. Areas of stand where the red pine is suppressed. Basal areas are variable across stand. Trees are generally short and somewhat limby throughout stand. Older white pine present as well as scattered pole sized white pine, jack pine and aspen. Recommend final harvest of stand and replant to jack pine.

Wld : leave any oak and some large White pine. Leave some good big maple (edges) and some large spruce.

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**Total Acres..... 132**

**Proposed Treatments  
With Limiting Factors**

**Compartment: 95**

**Entry Year: 2011**

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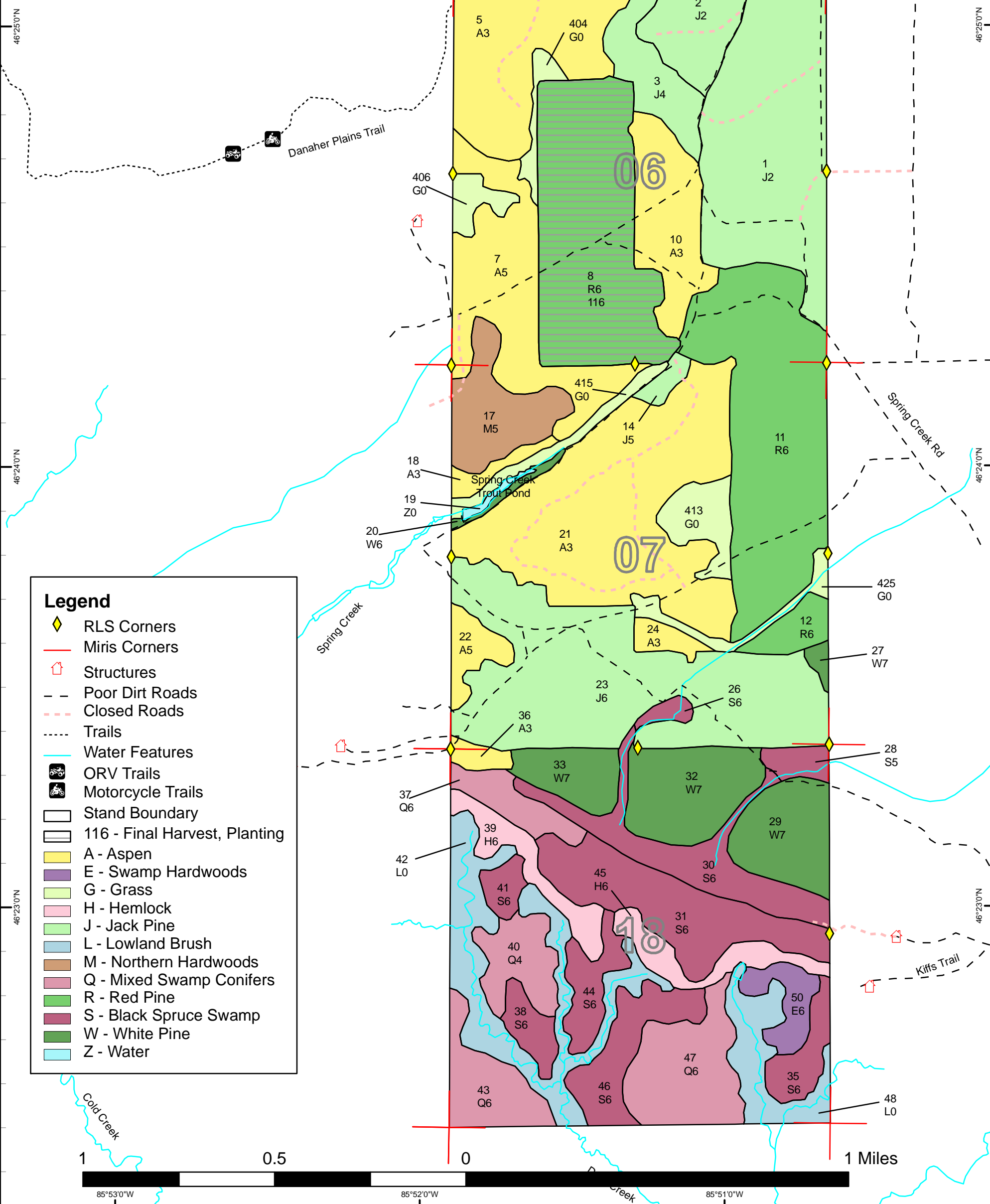
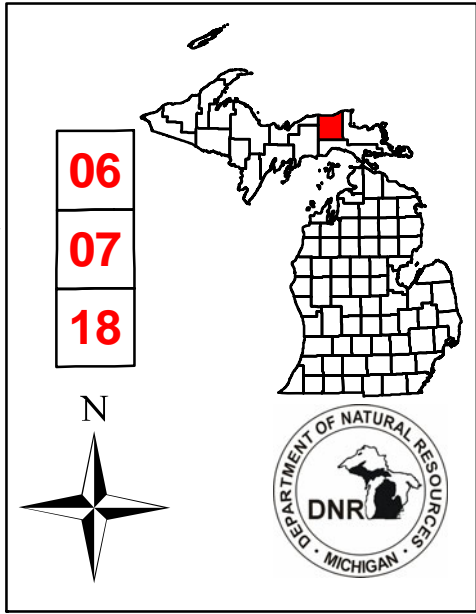
TREATMENT LIMITING FACTORS:

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**Total Acres..... 0**

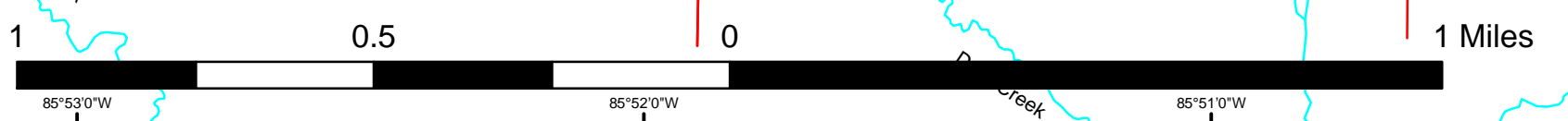
# Covertypes & Treatment Map

Compartment 095  
 T46N, R12W, Sec. 6, 7, 18  
 County: Luce  
 Unit: Newberry  
 YOE: 2011  
 Acres: 1,886 GIS Calculated  
 Stand Examiner: Keith Magnusson  
 Map Revised: 11/05/09  
 Map Phase: Pre-Review




**Legend**

- RLS Corners
- Miris Corners
- Structures
- Poor Dirt Roads
- Closed Roads
- Trails
- Water Features
- ORV Trails
- Motorcycle Trails
- Stand Boundary
- 116 - Final Harvest, Planting
- A - Aspen
- E - Swamp Hardwoods
- G - Grass
- H - Hemlock
- J - Jack Pine
- L - Lowland Brush
- M - Northern Hardwoods
- Q - Mixed Swamp Conifers
- R - Red Pine
- S - Black Spruce Swamp
- W - White Pine
- Z - Water





# Stand Boundary Map

Compartment 095  
T46N, R12W, Sec. 6, 7, 18  
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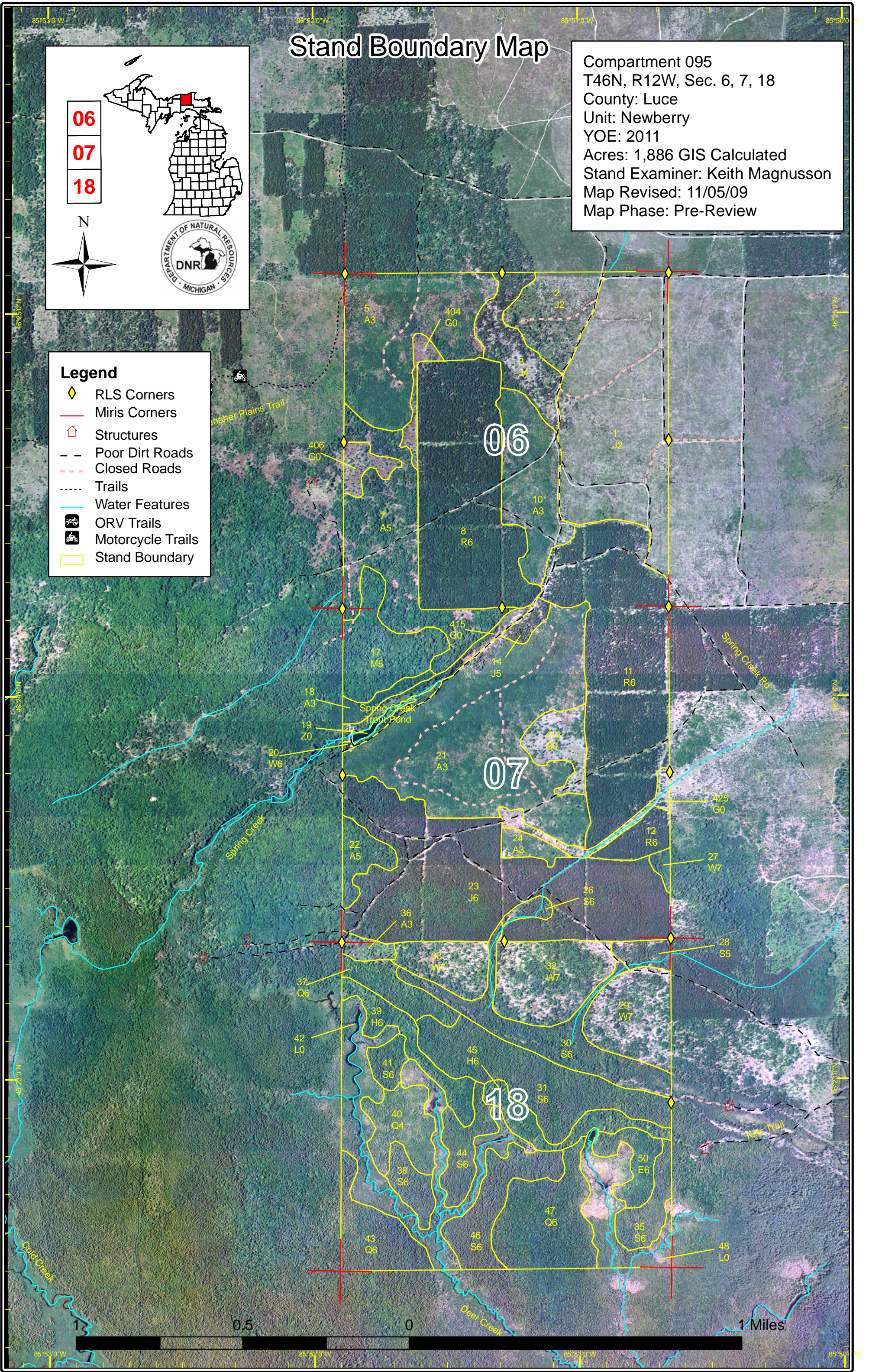
06  
07  
18

N



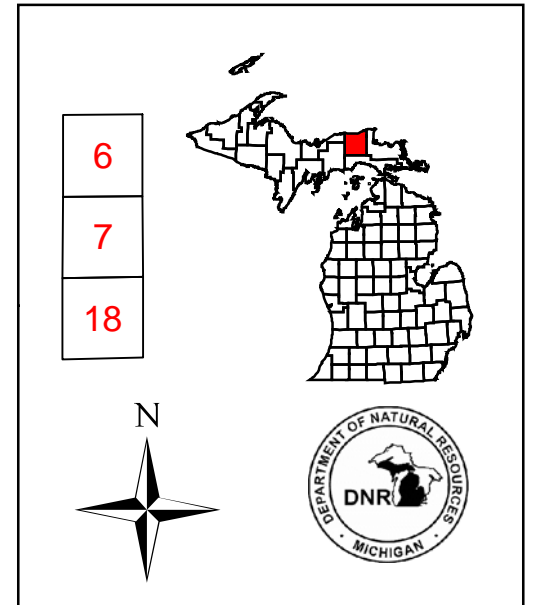
**Legend**

- ◆ RLS Corners
- Miris Corners
- 🏠 Structures
- - - Poor Dirt Roads
- - - Closed Roads
- ⋯ Trails
- 🌊 Water Features
- 🛵 ORV Trails
- 🏍️ Motorcycle Trails
- 🟡 Stand Boundary



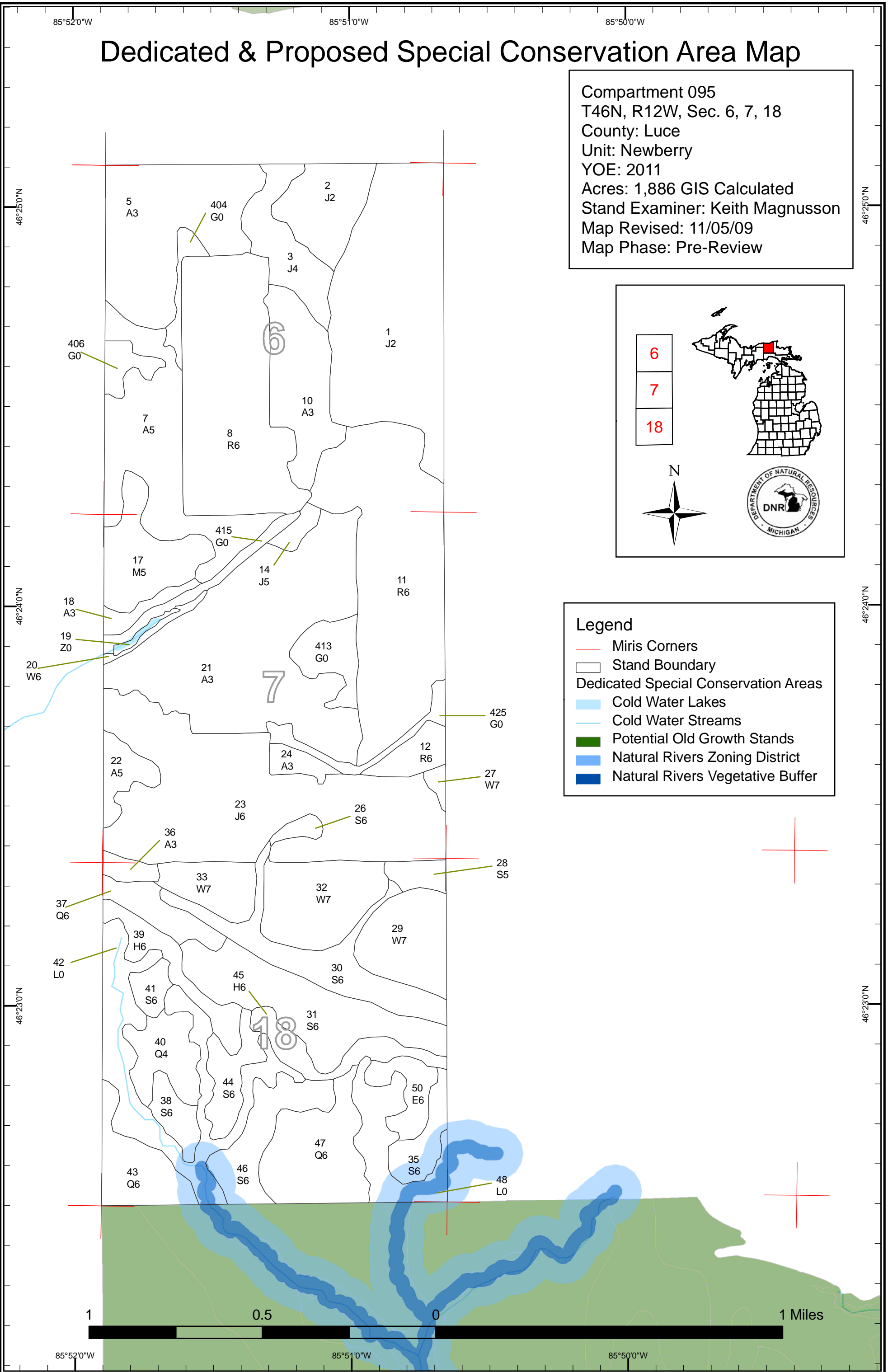
# Dedicated & Proposed Special Conservation Area Map

Compartment 095  
 T46N, R12W, Sec. 6, 7, 18  
 County: Luce  
 Unit: Newberry  
 YOE: 2011  
 Acres: 1,886 GIS Calculated  
 Stand Examiner: Keith Magnusson  
 Map Revised: 11/05/09  
 Map Phase: Pre-Review



**Legend**

- Miris Corners
- Stand Boundary
- Dedicated Special Conservation Areas**
- Cold Water Lakes
- Cold Water Streams
- Potential Old Growth Stands
- Natural Rivers Zoning District
- Natural Rivers Vegetative Buffer





**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	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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.
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.