



## SHINGLETON FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 79 ENTRY YEAR: 2010

Compartment Acreage: 2,204 County: Schoolcraft

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**Revision Date:** 6/11/2008

**Stand Examiner:** Adam Petrelius

**Legal Description:** T41N R16W Sections 15, 16, 20-22, 28, 29

**RMU (if applicable):**

**Management Goals:** The main goal of this compartment is to conduct multiple resource management for current and future generations.

**Soil and Topography:** The topography within the compartment consists of a series of ridges and low areas paralleling the Lake Michigan shoreline. Slight elevation changes occur with values ranging from 597-620 feet. The majority of the compartment is dominated by cedar and mixed conifer swamps. The major soil types found, in order of abundance, are Carbondale/Lupton/Tawas, Wurtsmith/Tawas/Deford, Dawson/Greenwood/Loxley, and Dawson/Kinross Mucks. Habitat types within the compartment, in order of abundance, are Unclassified (Limestone Rock Land), PArV, PArVAa, and PVE. It lies within the Lakeshore Marsh and Thompson Plains Land Type Association, and the Lake Michigan Shoreline Management Area.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** State land within this compartment was acquired between 1927 and 1978. Private land borders the majority of the compartment boundary. There is no state forest land adjacent to the compartment. Indian Lake State Park lies along the northwestern edge and the Thompson State Fish Hatchery lies along the southwestern edge. Private ownership surrounding the compartment is a mixture of small tracts and medium blocks of land. These parcels consist of permanent houses, businesses, and undeveloped land. The southeastern boundary has the most active development along the Lake Michigan Shoreline. Future problems, with increased development of the area, include illegal roads/trails, littering, and trespass.

**Unique, Natural Features (include only non-site specific and non-sensitive information):** This compartment contains unique ecosystems and species which contribute towards the biodiversity of landscape. The entire compartment is categorized as an Ecological Reference Area (ERA) for Wooded Dune and Swale Complex. The majority of compartment is also a Special Conservation Area (SCA) for deer wintering complex and potential old growth.

**Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):** Archeological sites are located within or near compartment boundaries.

**Special Management Designations or Considerations:** Forest management activities are planned and implemented to prevent damage and strengthen the quality of the unique ecosystems and species located within the compartment.

**Watershed and Fisheries Considerations:** Thompson Creek is a cold-water stream that supports a diverse trout and salmon population. Brook trout, brown trout, chinook salmon, coho salmon, and steelhead all use the lower reaches for spawning and juvenile nursery areas. Maintaining buffer strips that prevent inputs of sediment to the stream channel are very crucial to protect the substrate and sensitive juvenile fish. Southtown Creek is a small, warm-warm water stream. No information exists in the files regarding the composition of the stream fish community.

**Wildlife Habitat Considerations:** This compartment lies between Indian Lake State Park and Lake Michigan in the Escanaba/Door Peninsula ecological sub-subsection. The cover types can be classified as old sandy beach ridges interspersed with lowland coniferous swamps in a wooded dune and swale complex. Conditions found here support a wide variety of neo-tropical migratory birds that feed on insects from the branches of conifers on the north side of Lake Michigan during the northward migration. The compartment also provides cover for wintering deer. The integrity of this complex will be maintained by allowing natural processes to continue.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of lacustrine (lake) sand & gravel and peat & muck. The glacial drift thickness varies between 10 and 100 feet. The Silurian Manistique Group subcrops below the glacial drift. The Manistique could be used for stone. Gravel pits are not located in this area and potential appears to be limited. There is no commercial oil and gas production in the UP.

**Vehicle Access:** The compartment is surrounded by a county road, state highway, and US highway. There are no forest roads which lead into the compartment. A few old roads created by timbersales in the past are still visible, but there is no vehicle access to the compartment. A railroad track, powerline, and snowmobile trail all travel east/west through the compartment. Foot access is also difficult due to the thick lowland forest types found here.

**Survey Needs:** None needed.

**Recreational Facilities and Opportunities:** There are no recreational facilities located within the compartment. One snowmobile trail travels east/west and is closed to vehicles during summer months. Opportunities for hunting, fishing, and other forms of recreational activity exist within the compartment. Recreational use in the compartment is very minimal due to access. Indian Lake State Park borders the northwestern boundary.

**Fire Protection:** Response time to fires within this compartment from the Thompson field office will be variable. The Thompson field office is adjacent to this compartment, but the lack of road system will be difficult. The compartment receives little use throughout fire season and a lightning caused fire is more likely than a human caused fire. Weather conditions here are typically cooler with higher humidity values than other areas of the management unit. Numerous water sources exist.

#### **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

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: 79

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								8											8
Cedar				36	33	69		99		59	412	129	89						926
Local Name	9																		9
Lowlnd Brush	71																		71
Marsh	29																		29
Mx Swmp Cnfr								204	79	146	207								636
Non Stocked	90																		90
Red Pine											117								117
Spruce Fir				76	148		22												246
Swamp Hrdwds						22													22
Tamarack									39										39
Water	11																		11
<b>Total</b>	<b>210</b>			<b>112</b>	<b>181</b>	<b>91</b>	<b>22</b>	<b>311</b>	<b>118</b>	<b>205</b>	<b>736</b>	<b>129</b>	<b>89</b>						<b>2204</b>

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

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: 79

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	8																										8
C Cedar				926																							926
I Local Name								9																			9
L LowInd Brush									71																		71
N Marsh											29																29
Q Mx Swmp Cnfr												636															636
X Non Stocked													90														90
R Red Pine															117												117
F Spruce Fir																			246								246
E Swamp Hrdwds																				22							22
T Tamarack																					39						39
Z Water																									11	11	
<b>Total</b>	8			926				9	71		29	636	90			117			246	22	39				11	2204	

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: **79**

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

COMPARTMENT SUMMARY	
TOTAL VOLUME	CUT VOLUME
Hardwood 1443 Cds	
Softwood 20109 Cds	
Softwood 472 Mbf	
Sum TotVol 22496 Cds	
<b>Total Cmpt Acres</b>	Acres Proposed For Cut..... 0
2204	

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 79**

**Entry Year: 2010**

<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>FDI Status</b>
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**Total Acres..... 0**

**Proposed Treatments  
With Limiting Factors**

**Compartment: 79**

**Entry Year: 2010**

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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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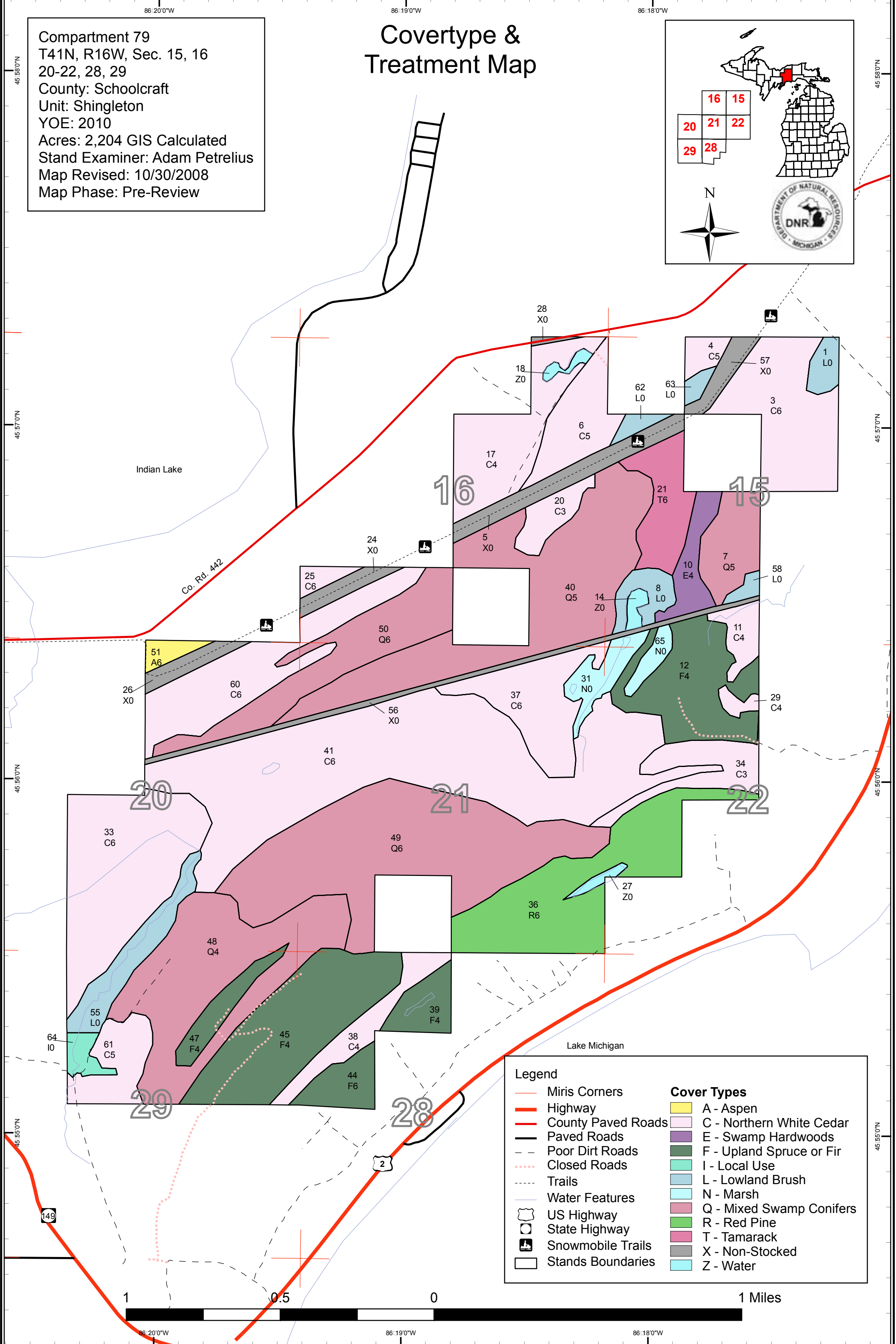
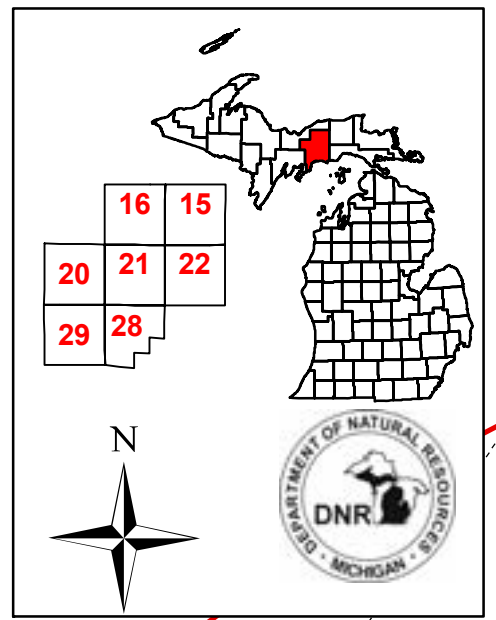
TREATMENT LIMITING FACTORS:

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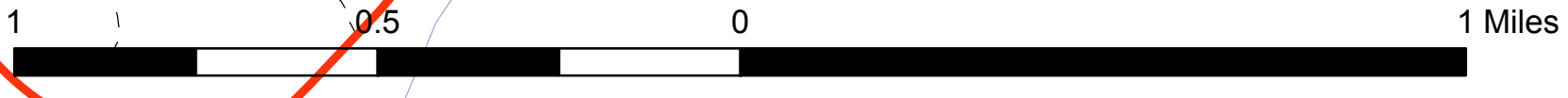
**Total Acres..... 0**

Compartment 79  
 T41N, R16W, Sec. 15, 16  
 20-22, 28, 29  
 County: Schoolcraft  
 Unit: Shingleton  
 YOE: 2010  
 Acres: 2,204 GIS Calculated  
 Stand Examiner: Adam Petrelius  
 Map Revised: 10/30/2008  
 Map Phase: Pre-Review

# Covertypes & Treatment Map



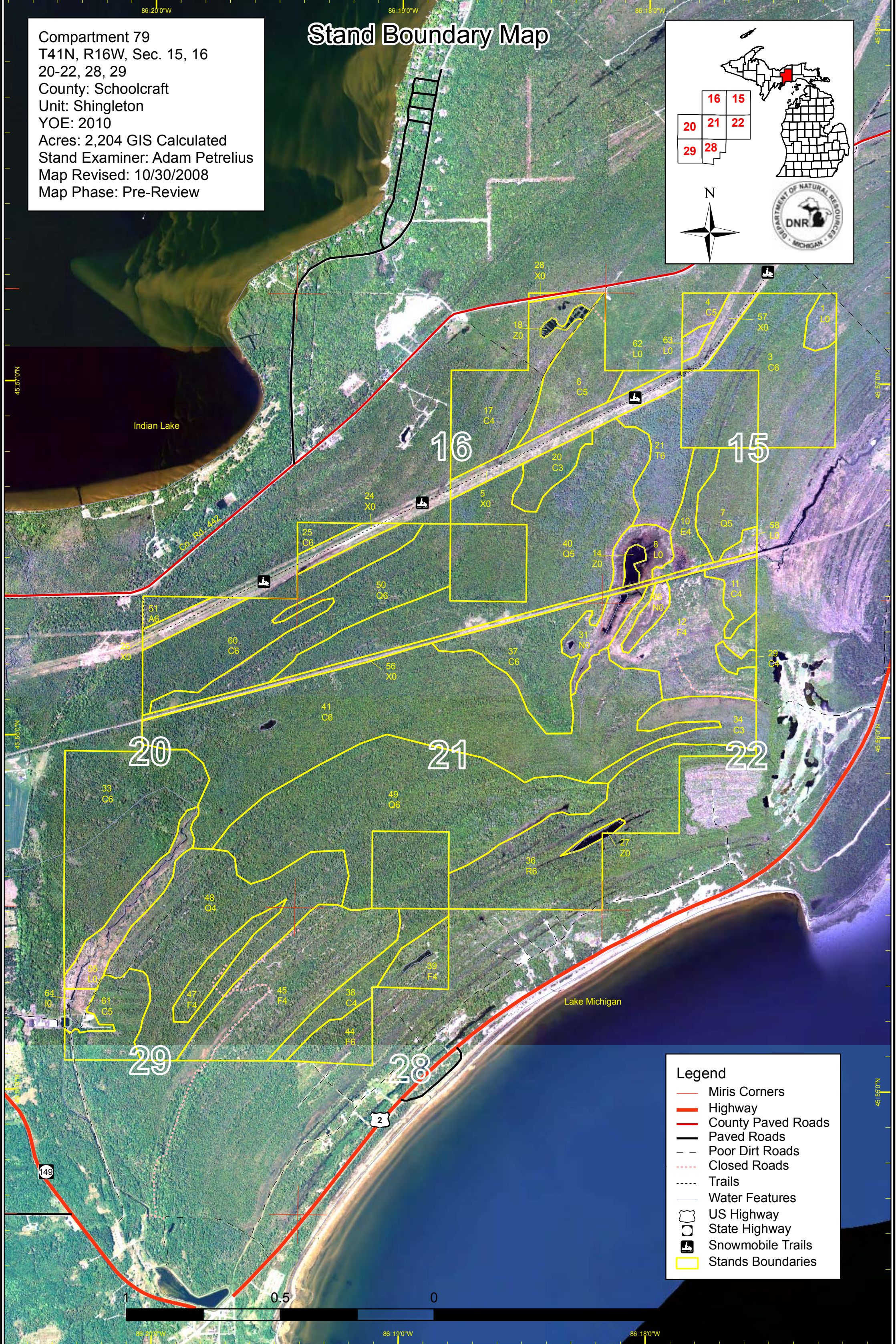
Legend	
	Miris Corners
	Highway
	County Paved Roads
	Paved Roads
	Poor Dirt Roads
	Closed Roads
	Trails
	Water Features
	US Highway
	State Highway
	Snowmobile Trails
	Stands Boundaries
Cover Types	
	A - Aspen
	C - Northern White Cedar
	E - Swamp Hardwoods
	F - Upland Spruce or Fir
	I - Local Use
	L - Lowland Brush
	N - Marsh
	Q - Mixed Swamp Conifers
	R - Red Pine
	T - Tamarack
	X - Non-Stocked
	Z - Water



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# Stand Boundary Map

N



**Legend**

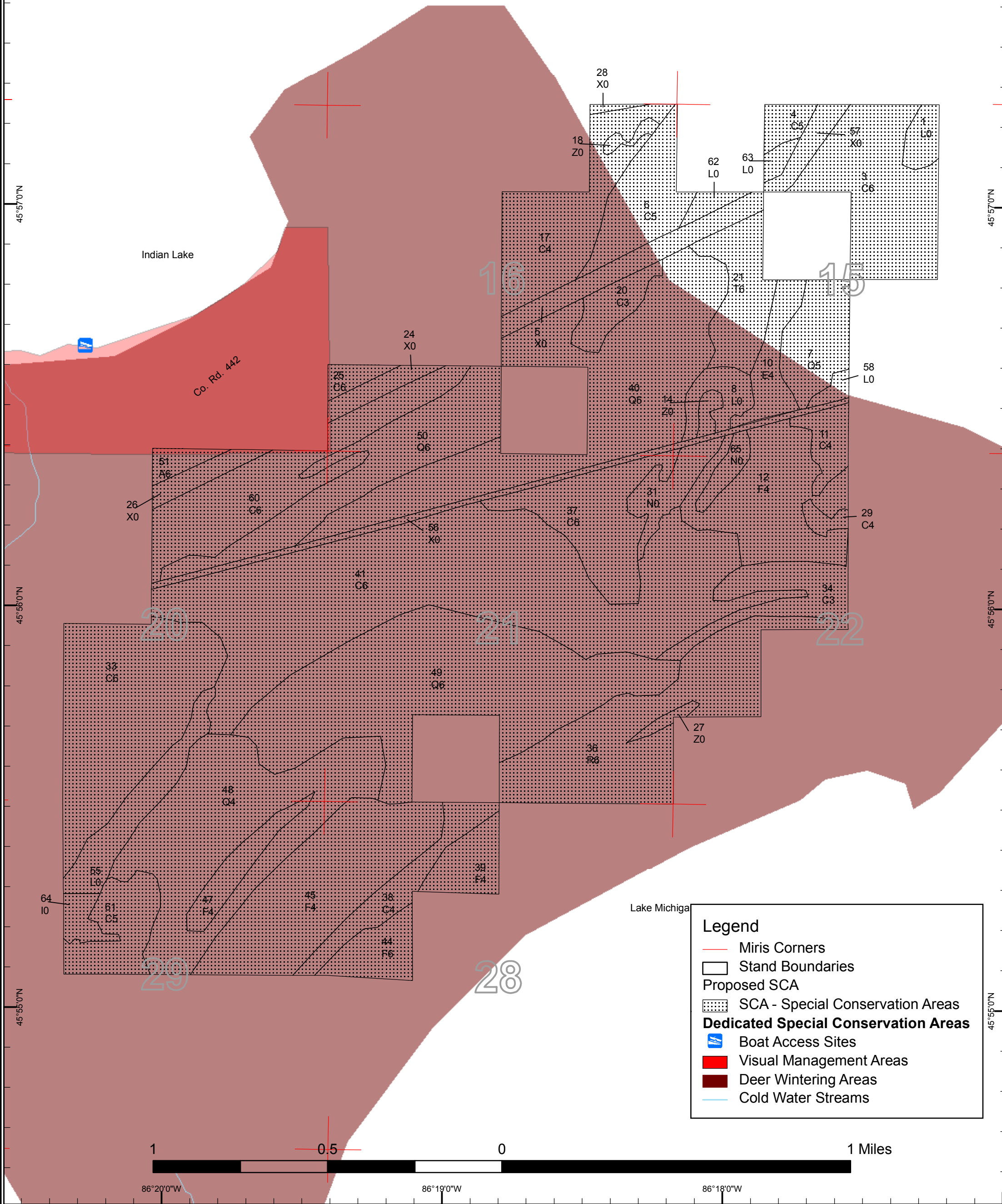
- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- Poor Dirt Roads
- Closed Roads
- Trails
- Water Features
- US Highway
- State Highway
- Snowmobile Trails
- Stands Boundaries



86:20:0"W 86:19:0"W 86:18:0"W  
 45:57:0"N 45:56:0"N 45:55:0"N  
 Indian Lake  
 Lake Michigan  
 149  
 2  
 1 0.5 0  
 86:19:0"W 86:18:0"W

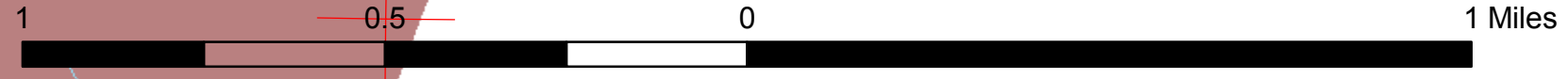
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# Dedicated & Proposed Special Conservation Area Map



**Legend**

- Miris Corners
- Stand Boundaries
- Proposed SCA**
- SCA - Special Conservation Areas
- Dedicated Special Conservation Areas**
- Boat Access Sites
- Visual Management Areas
- Deer Wintering Areas
- Cold Water Streams



86°20'0"W      86°19'0"W      86°18'0"W

45°57'0"N

45°56'0"N

45°55'0"N

45°58'0"N

45°57'0"N

45°56'0"N

45°55'0"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
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.
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	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	Visual Management Area	An area of general social appreciation that is managed to recognize and preserve a particular visual value. Examples of these areas include scenic vistas, scenic or natural beauty roads, and lakeshore areas.