



**SHINGLETON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 99 ENTRY YEAR: 2010

Compartment Acreage: 1,158 County: Delta

Revision Date: 6/11/2008

Stand Examiner: Adam Petrelius, Tom Burnis

Legal Description: T38N R19W Sections 23, 24, 26, 27, 34, 35

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 is mostly flat. Slight elevation changes occur with values ranging from 581-650 feet. The majority of the compartment is dominated by mixed stands of aspen, birch, and balsam fir. Stands bordering the Lake Michigan shoreline are mostly cedar. The major soil types found, in order of abundance, are Limestone Rock Land, Summerville, and Eastport. Additional soils found are Alpena, Ensign, Duel, Rubicon, and Ruse. Habitat types within the compartment, in order of abundance, are Unclassified (Limestone Rock Land), PArVAa, AFOA, PVE, Unclassified Lowland, and ATFD. It lies within the Garden Outcrop 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 1907 and 1986. Only the northern boundary is bordered by state land. The rest is surrounded by private land and Lake Michigan. The northern portion is accessed from 10th road through a public easement acquired by the DNR. The southern portion has no legal access. Private ownership surrounding the compartment is mostly large blocks of ownership with 6 different owners. Even though access is limited in the southern portion, both areas receive heavy use during deer season. Problems associated with this include littering and ORV damage.

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. It is home to a variety of rare plants associated with alvar and shoreline habitats. All three types of special management areas are found here, Special Conservation Areas (SCA), High Conservation Value Areas (HCVA), and Ecological Reference Areas (ERA). The entire compartment is categorized as a SCA for deer wintering complex. It also contains a designated Coastal Environmental Area (HCVA). Alvar ecosystems (ERA) are also found within the northern and southern portions of the compartment. Areas of cedar along the Lake Michigan shoreline are also classified as potential old growth.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): None known.

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: Sucker Lake, a small (8.3 acres) and shallow lake, is found within this compartment. Previous surveys documented a fish community of common shiner, bluntnose minnow, Iowa darter, finescale dace, golden shiner, longnose dace, rock bass, and suckers. Suckers also use Sucker Lake and its connecting streams for spawning. Mud Lake is another small lake also found within this compartment but no information exists in the files regarding this waterbody.

Wildlife Habitat Considerations: This compartment lies south and west of the village of Garden along the eastern coast of the Garden Peninsula within the Escanaba/Door Peninsula ecological sub-subsection. Swamp conifer and early successional deciduous timber types dominate the compartment. The compartment provides wintering habitat for white-tailed deer. All stands immediately adjacent to the shoreline have been nominated for potential oldgrowth designation. Wildlife objectives include maintaining the forested Great Lakes shoreline and interdunal wetland habitat through oldgrowth nomination, maintaining the integrity of the swamp conifer stands to provide cover for wildlife, and providing early successional deciduous habitat in four stands through regeneration.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of thin to discontinuous glacial sediments over bedrock. The glacial drift thickness varies between 0 and 10 feet. The Silurian Manistique Group subcrops below the glacial drift. The Manistique could be used for stone. A gravel pit is located in Section 16 and there may be some potential. There is no commercial oil and gas production in the UP.

Vehicle Access: The compartment is split into 2 portions. The northern portion can be accessed from 10th Road. At the end of 10th road access is east along a forest road which the DNR holds a public easement. Access to the southern portion is from JJ Road. Once JJ road ends, travel south along a forest road ½ mile to the compartment boundary. The southern portion can also be accessed from the west and south through a system of privately owned forest roads. There is no legal access for the DNR to manage the southern portion of the compartment.

Survey Needs: Survey work may be needed within the compartment prior to timbersale preparation.

Recreational Facilities and Opportunities: There are no recreational facilities located within the compartment. Opportunities for hunting, fishing, and other forms of recreational activity exist within or adjacent to this compartment.

Fire Protection: Response time to fires within this compartment from the Thompson field office will be slow. Fayette State Park, located within 5 miles, has a small engine with qualified firefighters and can be dispatched if needed. 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. Lake Michigan can be used as a water source if needed.

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

DELTA COUNTY

COMPARTMENT: 99

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	314																										314
C Cedar				329																							329
G Grass					8																						8
L Lowlnd Brush									4																		4
X Non Stocked													33														33
B Paper Birch															20												20
F Spruce Fir																			437								437
E Swamp Hrdwds																				5							5
M Upland Hdwds																								8			8
Total	314			329	8				4				33		20				437	5				8			1158

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

DELTA COUNTY

COMPARTMENT: **99**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	2499 Cds	Hardwood	265 Cds
Hardwood	24 Mbf	Softwood	161 Cds
Softwood	6882 Cds	Softwood	9 Mbf
Softwood	9 Mbf	Sum CutVol	444 Cds
Sum TotVol	9447 Cds		
Total Cmpnt Acres		Acres Proposed For Cut.....	16
1158			

SHINGLETON FOREST AREA

Proposed Treatments
With NO Limiting Factors

Compartment: 99

Entry Year: 2010

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
8	F6	5	58	52	spruce-fir (uplands-including upland black spruce)	old growth (potential or actual)	final harvest	2		
comnts Fmd : SCA-Deeryard. Cut in winter for deer yard management. Stand may need survey work. A representative species mixture is acceptable for regeneration. No soil disturbance or harvesting activities allowed in stand 16 (ERA-Alvar). Only existing roads located in stand 16 may be used for turnaround locations.										
Retention - Do not cut hemlock, oak, red pine, and white pine. Make sure unit line is on top of ridge to save the large canopy conifers located there.										
12	C4	16	67	26	cedar	old growth (potential or actual)		0	cleaning & weeding	
comnts Fmd : ERA - Alvar, SCA - Deeryard										
Illegal ORV trail referred to LED.										
16	F3	63	23	34	spruce-fir (uplands-including upland black spruce)	old growth (potential or actual)		0	cleaning & weeding	
comnts Fmd : ERA - Alvar, SCA - Deeryard. Temporary camping site and illegal 4 wheeler trails located within stand. Campers also left an outhouse. Referred to LED.										
Glossy Buckthorn was found during MNFI site visit. Wildlife FTP should be written for removal. Unknown location and minimal amount found.										
18	F4	121	28	40	spruce-fir (uplands-including upland black spruce)	old growth (potential or actual)		0	cleaning & weeding	
comnts Fmd : ERA - Alvar, SCA - Deeryard										
Illegal blind and ORV trail located within stand was referred to LED.										
Glossy Buckthorn was found during MNFI site visit. Wildlife FTP should be written for removal. Unknown location and minimal amount found.										
22	M6	4	80	50	northern hardwood	old growth (potential or actual)	final harvest	2		
comnts Fmd : SCA-Deeryard. Survey work may be needed. Cut in winter for deeryard management. A representative species mixture is acceptable for regeneration. Deer browsing has had an effect on the regeneration of adjacent stand 13, and may be an issue here. No soil disturbance or harvesting activities allowed in stand 16 (ERA-Alvar). Only existing roads located in stand 16 may be used for turnaround locations.										
Retention - Leave some white birch.										
23	M6	4	80	50	northern hardwood	old growth (potential or actual)	final harvest	2		
comnts Fmd : SCA-Deeryard. Survey work may be needed. Cut in winter for deeryard management. A representative species mixture is acceptable for regeneration. Deer browsing has had an effect on the regeneration of adjacent stand 13, and may be an issue here. No soil disturbance or harvesting activities allowed in stand 16 (ERA-Alvar). Only existing roads located in stand 16 may be used for turnaround locations.										
Retention - Leave some white birch.										
37	A6	3	62	50	aspen (upland)	old growth (potential or actual)	final harvest	2		
comnts Fmd : SCA-Deeryard. Cut in winter for deer yard management. Stand may need survey work. A representative species mixture is acceptable for regeneration. No soil disturbance or harvesting activities allowed in stand 16 (ERA-Alvar). Only existing roads located in stand 16 may be used for turnaround locations. FTP for TSI will not be written due to the stands size and location.										
Retention - Do not cut hemlock and oak.										
Total Acres.....		216								

**Proposed Treatments
With Limiting Factors**

Compartment: 99

Entry Year:2010

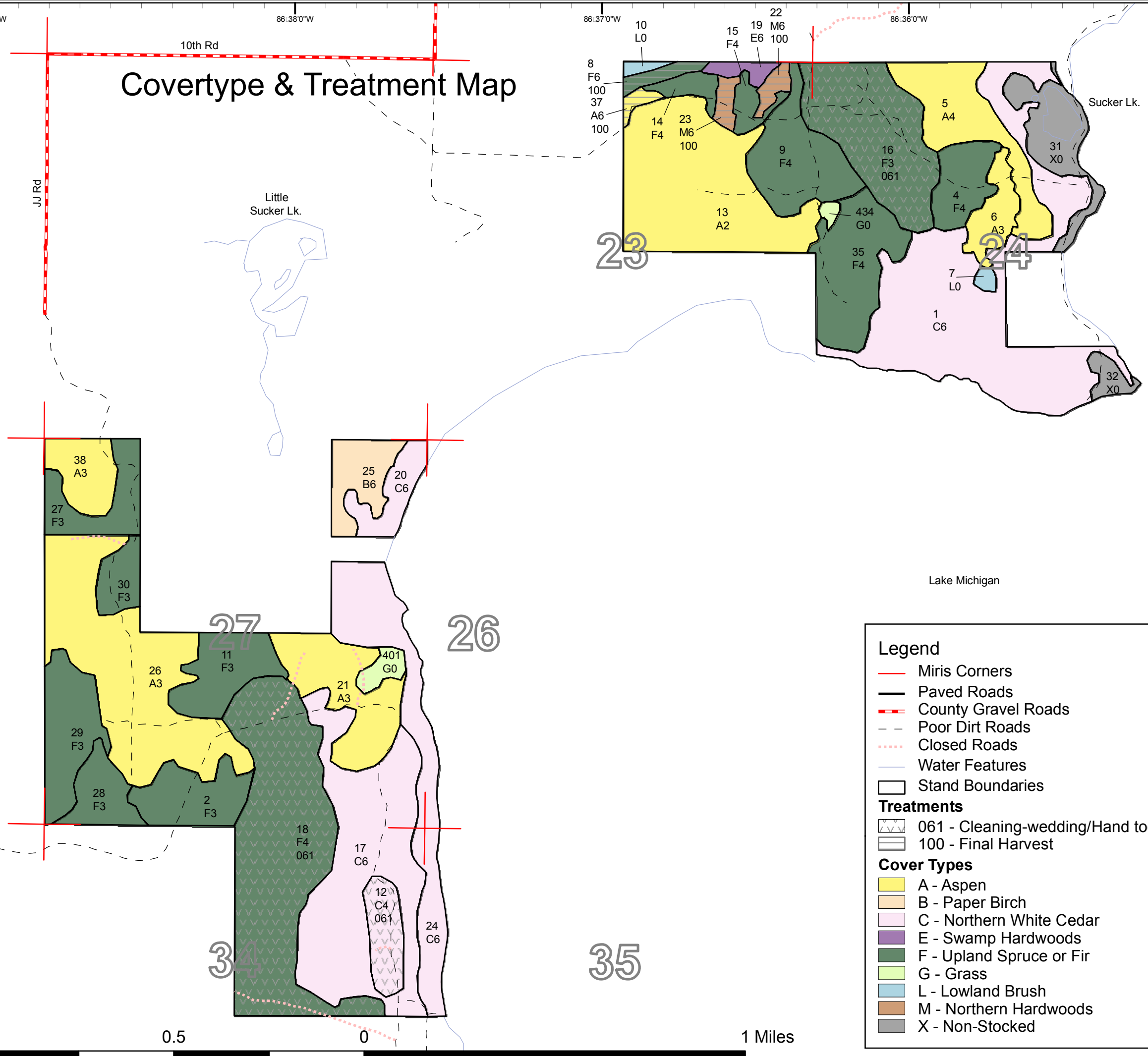
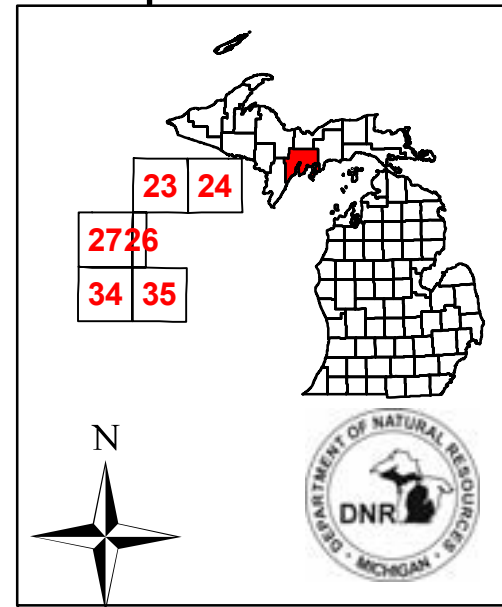
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Compartment 99
 T38N, R19W, Sec. 23, 24
 26, 27, 34, 35
 County: Delta
 Unit: Shingleton
 YOE: 2010
 Acres: 1,158 GIS Calculated
 Stand Examiner: Adam Petrelus
 and Tom Burnis
 Map Revised: 10/30/2008
 Map Phase: Pre-Review

Covertypes & Treatment Map



Legend

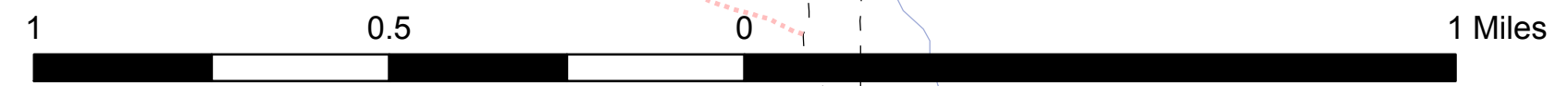
- Miris Corners
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Closed Roads
- Water Features
- Stand Boundaries

Treatments

- 061 061 - Cleaning-wedding/Hand tools
- 100 100 - Final Harvest

Cover Types

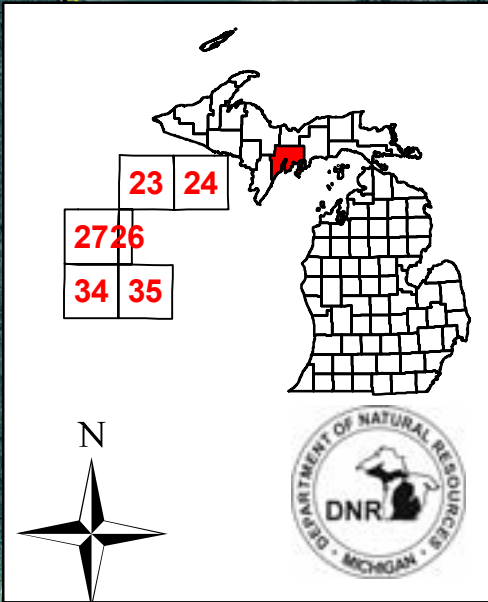
- A - Aspen
- B - Paper Birch
- C - Northern White Cedar
- E - Swamp Hardwoods
- F - Upland Spruce or Fir
- G - Grass
- L - Lowland Brush
- M - Northern Hardwoods
- X - Non-Stocked



86:40:0"W 86:39:0"W 86:38:0"W 86:37:0"W 86:36:0"W 86:35:0"W

Stand Boundary Map

Compartment 99
 T38N, R19W, Sec. 23, 24
 26, 27, 34, 35
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 Unit: Shingleton
 YOE: 2010
 Acres: 1,158 GIS Calculated
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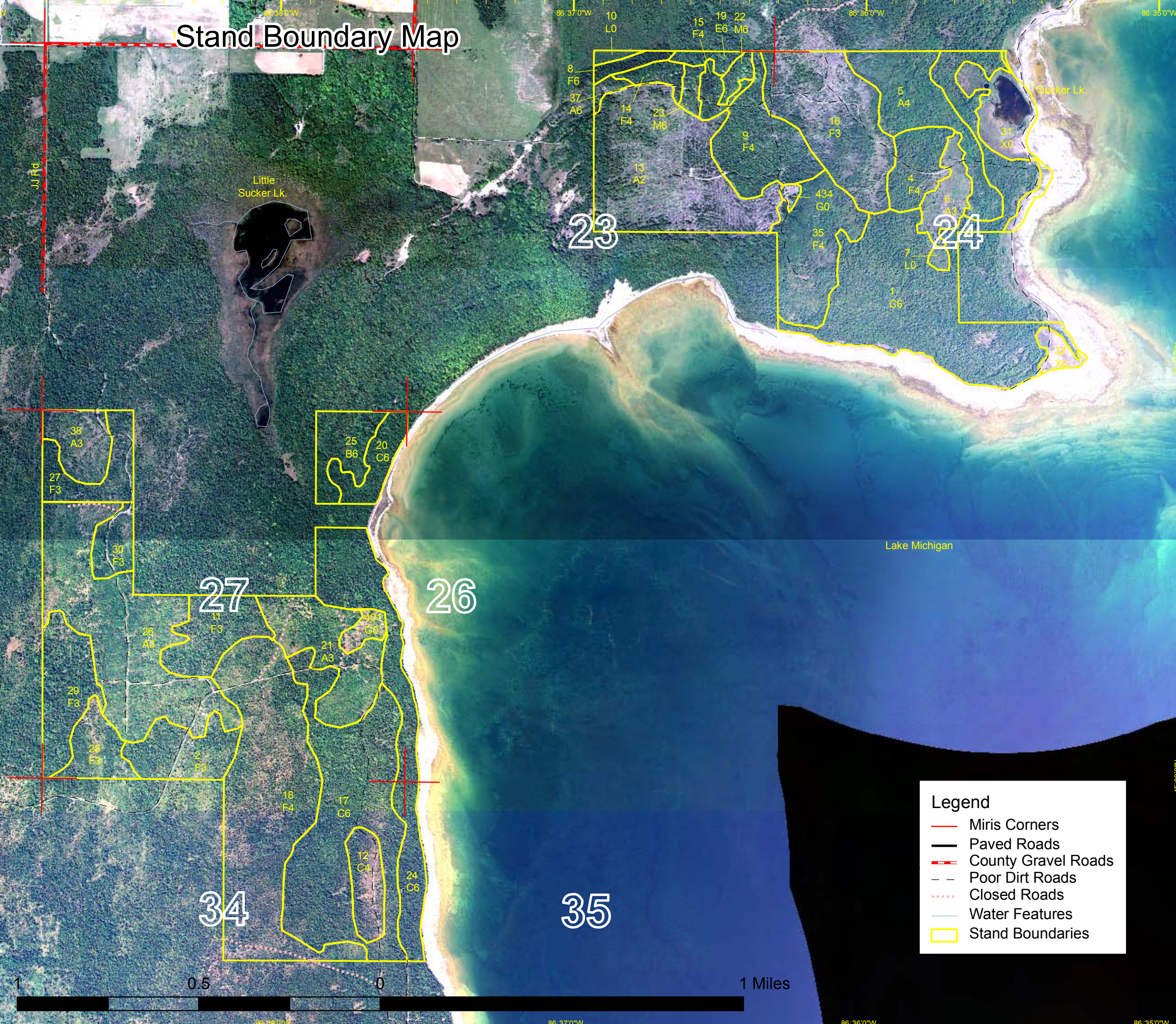


JJ Rd

Little Sucker Lk.

Sucker Lk.

Lake Michigan



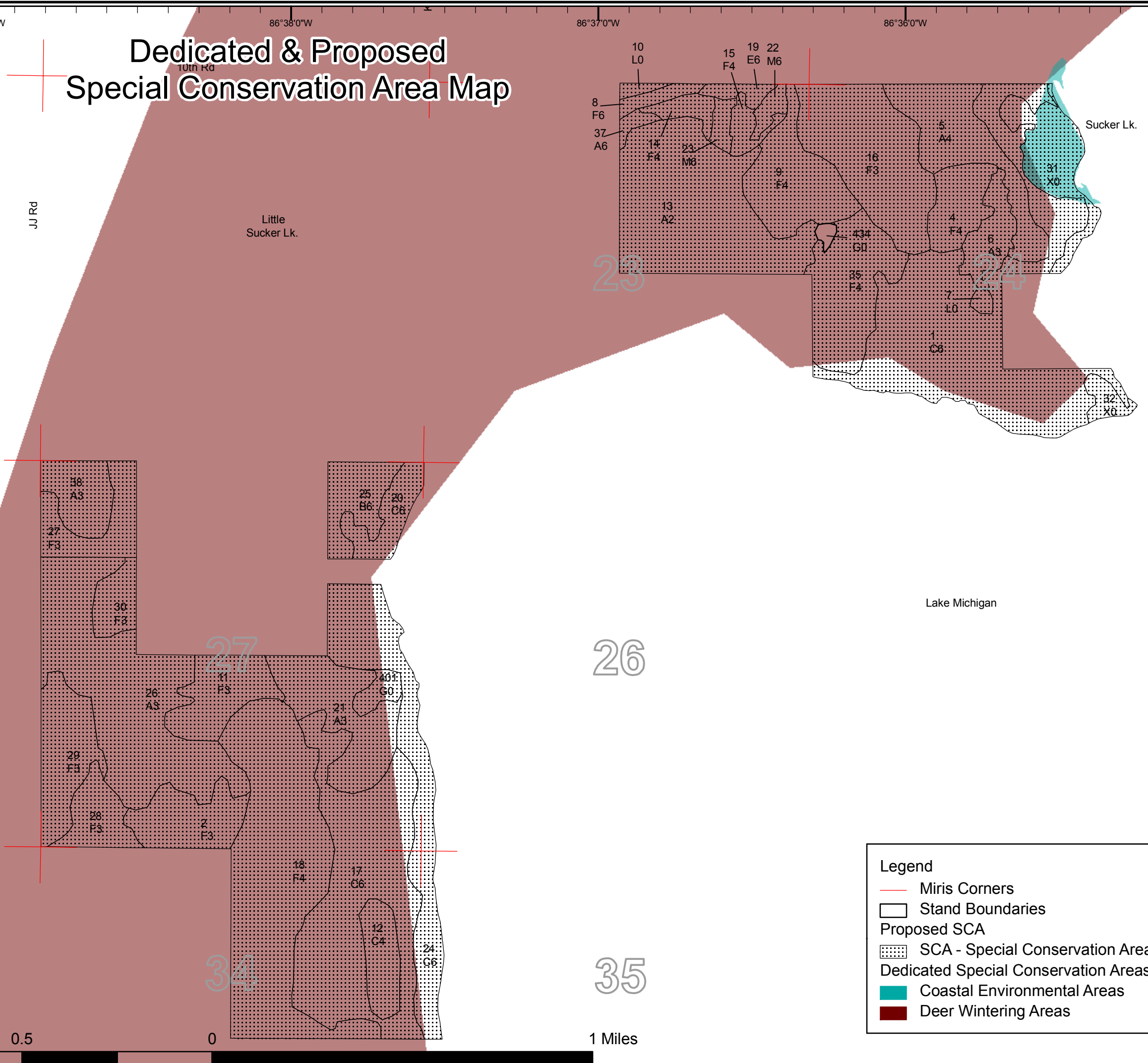
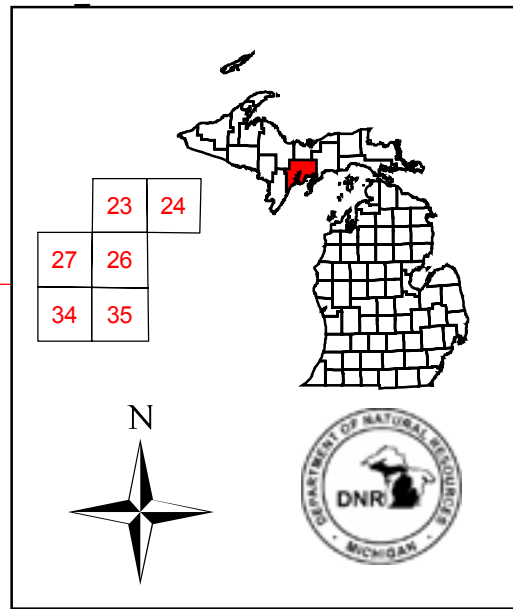
Legend

- Miris Corners
- Paved Roads
- - - County Gravel Roads
- - - Poor Dirt Roads
- - - Closed Roads
- Water Features
- Stand Boundaries



Dedicated & Proposed Special Conservation Area Map

Compartment 99
 T38N, R19W, Sec. 23, 24
 26, 27, 34, 35
 County: Delta
 Unit: Shingleton
 YOE: 2010
 Acres: 1,158 GIS Calculated
 Stand Examiner: Adam Petrelus
 and Tom Burnis
 Map Revised: 10/30/2008
 Map Phase: Pre-Review



Legend

- Miris Corners
- Stand Boundaries
- Proposed SCA
- Dedicated Special Conservation Areas
- Coastal Environmental Areas
- Deer Wintering Areas





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.
HCVA	Coastal Environmental Areas	The public designation process is defined by Part 323, Shorelands Protection and Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the Michigan Department of Environmental Quality (DEQ). This is an inactive program with no new areas currently under consideration by the DEQ.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
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.