



**CRYSTAL FALLS FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 36 - ENTRY YEAR: 2010  
Compartment Acreage: 2098 - County: Dickinson**

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**Revision Date:** July 7, 2008

**Stand Examiner:** Terry Cryderman

**Legal Description:** T43N, R28W, Sections 1, 2, 3, 4, 9, 10, 11, 12, 15 and 16

**Management Goals:** Develop age class distribution in aspen type. Maintain diversity in hardwood types. Increase conifers where possible.

**Soil and Topography:** Rolling hills to swamps.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** State owned land and private ownership used by loggers, hunters and fishermen.

**Unique, Natural Features:** North Branch of Ford River.

**Archeological, Historical, and Cultural Features:** None known.

**Special Management Designations or Considerations:** None known.

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:** Potential for goshawk, red-shouldered hawk. Potential for wood turtle along drainage. Potential for moose and gray wolf. Potential for pygmy skink and other listed stream inhabiting dragonflies.

**Mineral, Oil and Gas Considerations:** Surface sediments consist of medium-textured glacial till. The glacial drift thickness varies between 10 and 100 feet. The Cambrian Munising Formation and the Precambrian Archean granite/gneiss subcrop below the glacial drift. There is not a current economic use for these rocks, although they have building/dimension stone potential. Abandoned iron mines are located approximately ten miles to the south, near Felch. Gravel pits are not located in this area, but there should be potential on the uplands. This compartment was not previously leased for metallic exploration, but potential may still exist. There is no economic oil and gas production in the UP.

**Vehicle Access:** County Road 581 and Dry Lake roads.

**Survey Needs:** Several corners will be needed.

**Recreational Facilities and Opportunities:** Hunting, fishing and dispersed camping.

**Fire Protection:** Felch protection area.

## **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

COPPER COUNTRY STATE FOREST

CRYSTAL FALLS FOREST MGT UNIT

DICKINSON COUNTY

COMPARTMENT: 36

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	863																										863
C Cedar				743																							743
G Grass					209																						209
L LowInd Brush									46																		46
P LowInd Poplr										116																	116
Q Mx Swmp Cnfr												7															7
F Spruce Fir																			41								41
M Upland Hdwds																								73			73
Total	863			743	209				46	116		7							41					73			2098

COPPER COUNTRY STATE FOREST

CRYSTAL FALLS FOREST MGT UNIT

DICKINSON COUNTY

COMPARTMENT: **36**

*Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS*

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	10330 Cds	Hardwood	3718 Cds
Hardwood	154 Mbf	Hardwood	50 Mbf
Softwood	15711 Cds	Softwood	342 Cds
Softwood	16 Mbf	Sum CutVol	4160 Cds
Sum TotVol	26381 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	191
2098			

**CRYSTAL FALLS FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 36**

**Entry Year: 2010**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
11	A6	54	48	60	aspen (upland)	mature	final harvest	2		
comnts Fmd : Retention in east end.										
14	A6	57	48	60	aspen (upland)	mature	final harvest	2		
comnts Fmd : Retention area to be determined. May be along the east part of the north line.										
17	A6	15	78	55	aspen (upland)	mature	final harvest	2		
comnts Fmd : Stand retention will be the small inclusion of M3 and cherry. A diversity of regeneration including fir and maple would be an acceptable alternative.										
Wld : Protect transiton to lowland type and include as retention.										
25	A6	5	50	55	aspen (upland)	mature	final harvest	2		
comnts Fmd : Leave retention along the north side.										
26	A6	9	50	55	aspen (upland)	mature	final harvest	2		
comnts Fmd : Some low ground but mostly high ground. Leave cedar, black ash and non-merchantable conifers. Leave retention on the west side along the opening. Regeneration with a mix of aspen, tamarack and mixed conifers would be an acceptable alternative. Prereview comment: Red line wet spot.										
27	A6	8	68	55	aspen (upland)	mature	final harvest	2		
comnts Fmd : Retention along the northeast side.										
34	M6	3	80	55	northern hardwood	immature	thinning	2		prescribed for fdf treatment
comnts Fmd : Minor species will be favored for retention.										
35	M6	8	80	55	northern hardwood	immature	thinning	2		prescribed for fdf treatment
comnts Fmd : Minor species will be favored for retention.										
405	G0	12			grass	nonstocked		0	opening maintenance	
Wld : Maintain hunter walking trail.										
<b>Total Acres.....</b>		<b>171</b>								

**CRYSTAL FALLS FOREST MGT UNIT**

**Proposed Treatments  
With Limiting Factors**

**Compartment: 36**

**Entry Year: 2010**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
3	M6	19	80	60	northern hardwood	immature	thinning	2		prescribed for fdf treatment

TREATMENT LIMITING FACTORS: Blocked by other physical obstacle

comnts Fmd : Minor species will be favored for retention. Prereview - Access blocked by stream and lowland.

4	A6	13	76	55	aspen (upland)	mature	final harvest	2		
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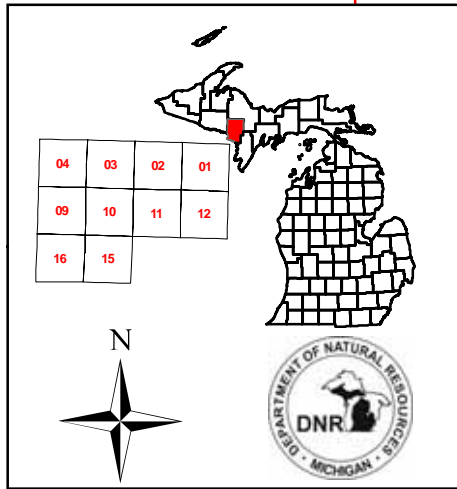
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle

comnts Fmd : Leave west point for retention and stream buffer. Prereview - Access blocked by stream and lowland.

**Total Acres..... 32**

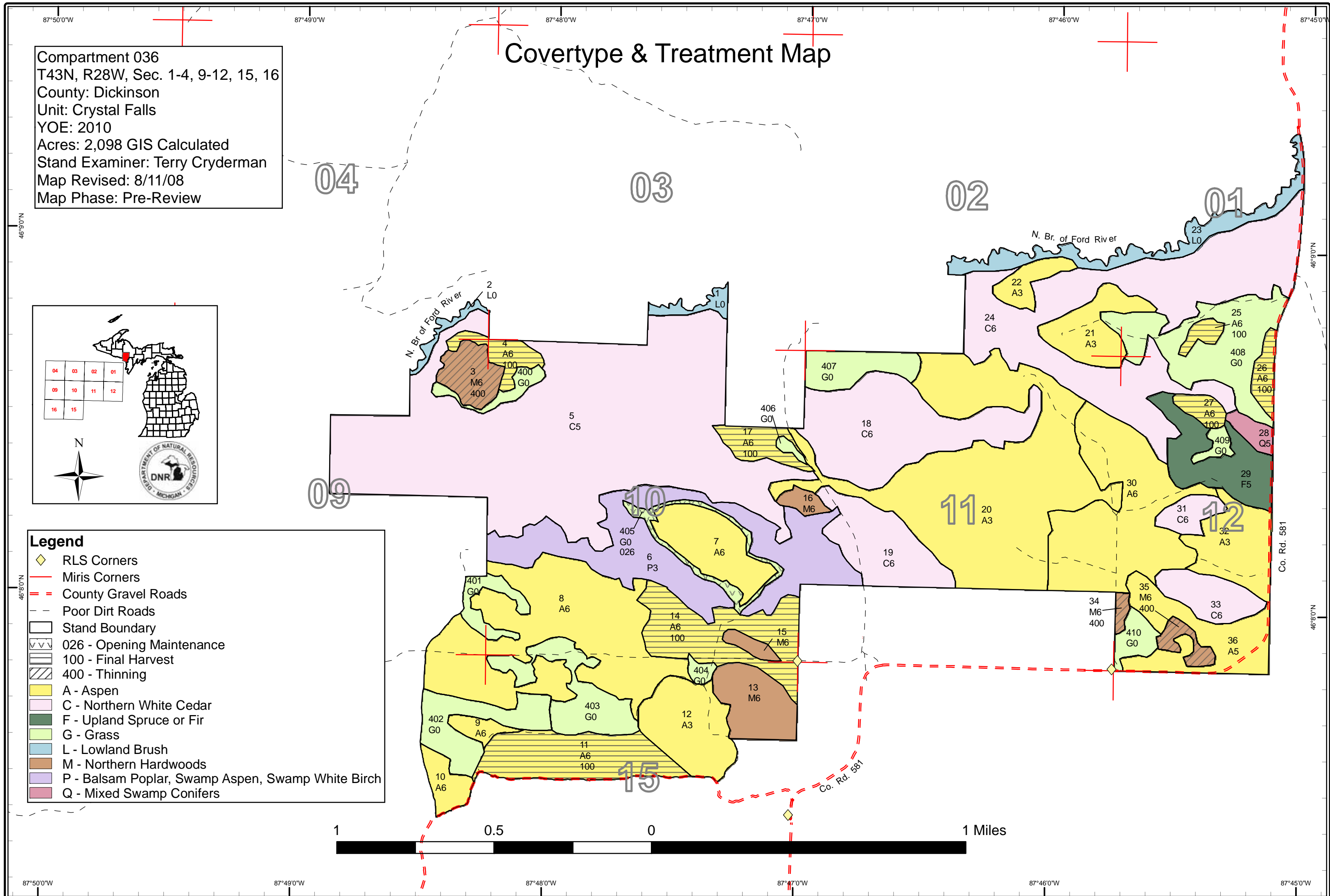
# Covertime & Treatment Map

Compartment 036  
 T43N, R28W, Sec. 1-4, 9-12, 15, 16  
 County: Dickinson  
 Unit: Crystal Falls  
 YOY: 2010  
 Acres: 2,098 GIS Calculated  
 Stand Examiner: Terry Cryderman  
 Map Revised: 8/11/08  
 Map Phase: Pre-Review



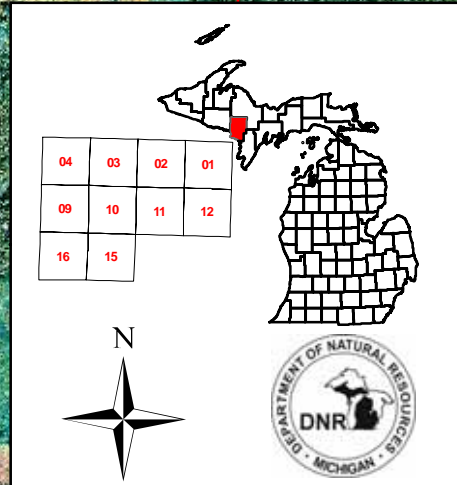
## Legend

- ◆ RLS Corners
- Miris Corners
- - - County Gravel Roads
- - - Poor Dirt Roads
- Stand Boundary
- 026 - Opening Maintenance
- 100 - Final Harvest
- 400 - Thinning
- A - Aspen
- C - Northern White Cedar
- F - Upland Spruce or Fir
- G - Grass
- L - Lowland Brush
- M - Northern Hardwoods
- P - Balsam Poplar, Swamp Aspen, Swamp White Birch
- Q - Mixed Swamp Conifers



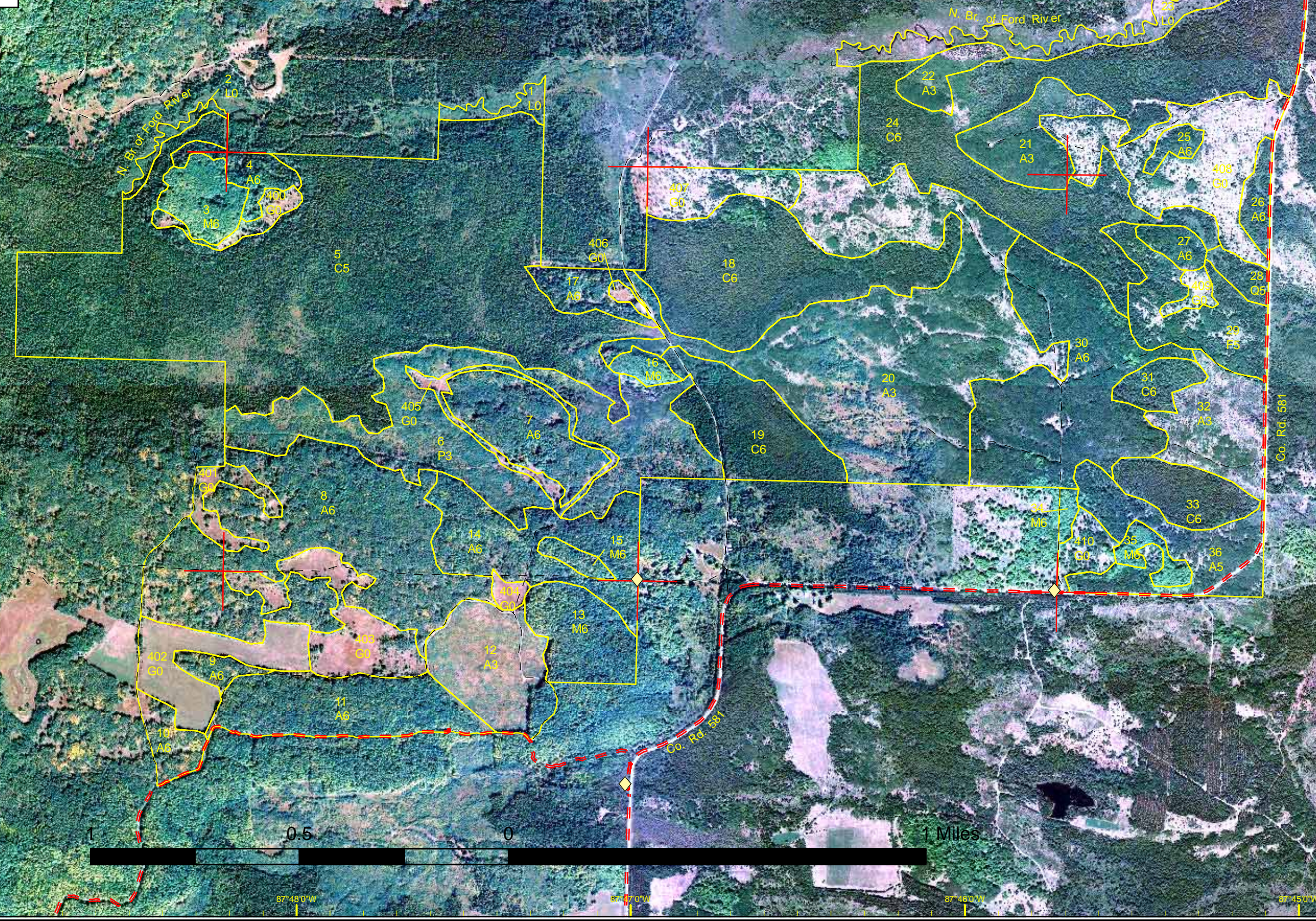
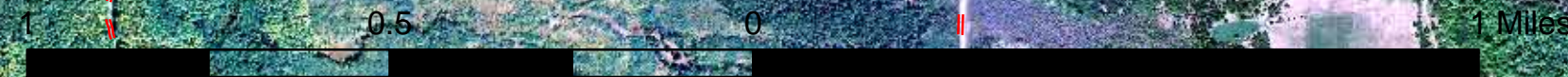
# Stand Boundary Map

Compartment 036  
T43N, R28W, Sec. 1-4, 9-12, 15, 16  
County: Dickinson  
Unit: Crystal Falls  
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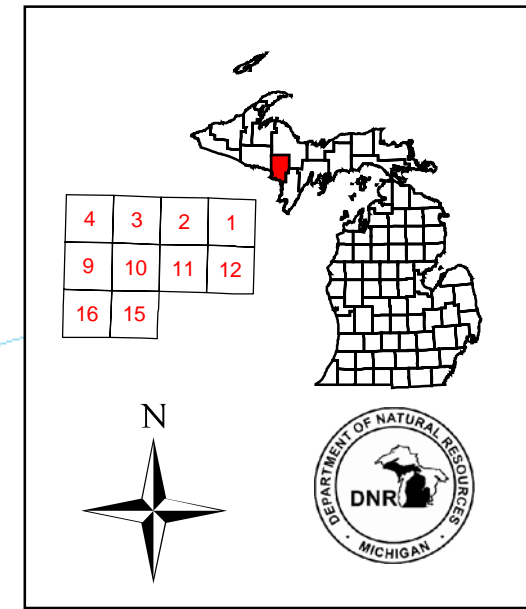
## Legend

- ◆ RLS Corners
- Miris Corners
- - County Gravel Roads
- - Poor Dirt Roads
- Stand Boundary

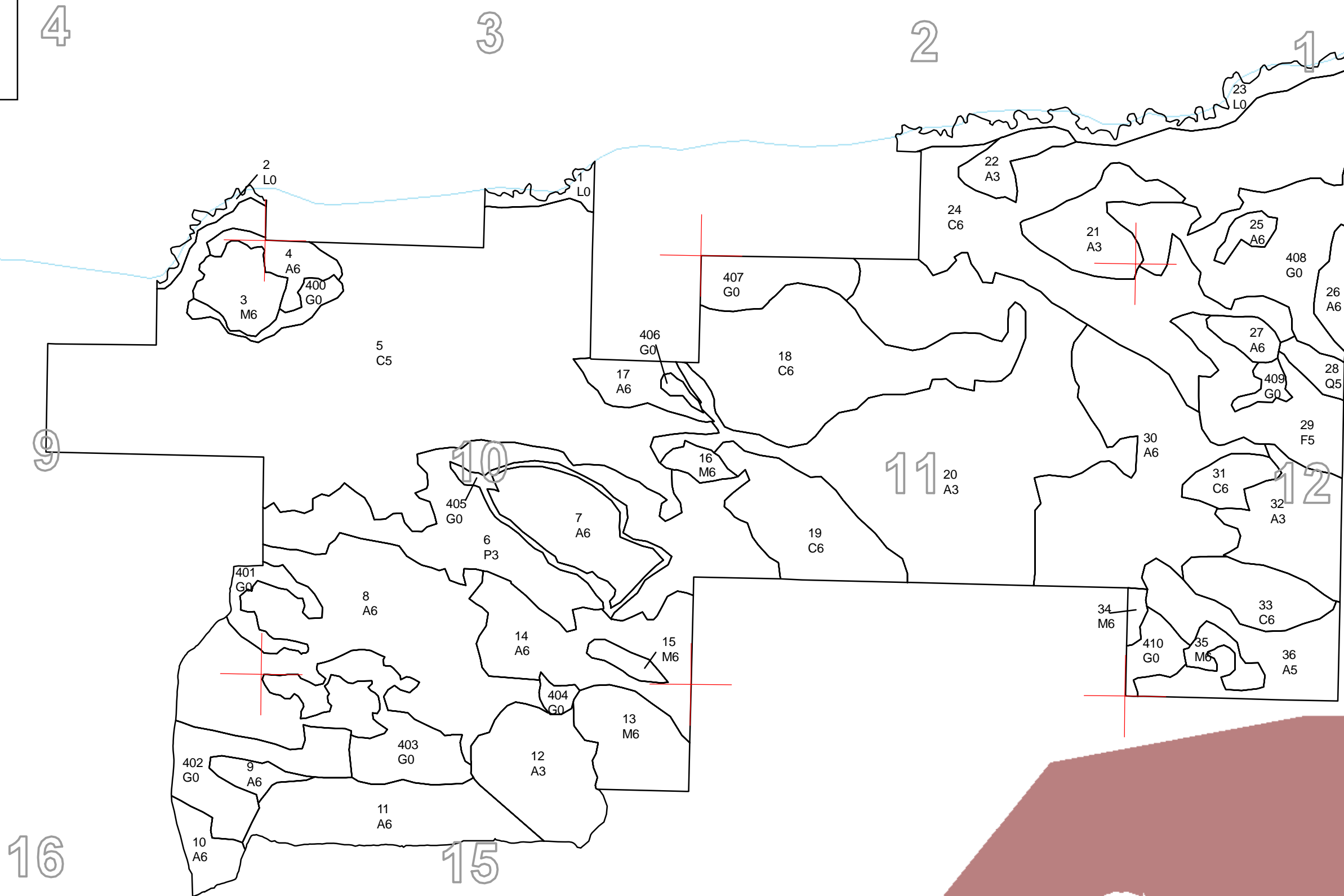
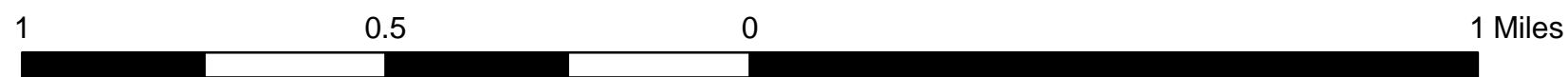


# Dedicated & Proposed Special Conservation Area Map

Compartment 036  
 T43N, R28W, Sec. 1-4, 9-12, 15, 16  
 County: Dickinson  
 Unit: Crystal Falls  
 YOY: 2010  
 Acres: 2,098 GIS Calculated  
 Stand Examiner: Terry Cryderman  
 Map Revised: 8/11/08  
 Map Phase: Pre-Review



- Legend**
- Cry036\_labels.dxf Polyline
  - Miris Corners
  - Stand Boundary
  - Cold Water Streams
  - 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
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	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.