



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

**COMPARTMENT #44 - ENTRY YEAR: 2010
Compartment Acreage: 2821 - County: Dickinson**

Revision Date: July 2, 2008

Stand Examiner: Scott Sebero

Legal Description: T44N, R30W, Sections 25 and 36
T44N, R29W, Sections 30 and 31
T43N, R30W, Sections 1, 2, 12 and 14
T43N, R29W, Sections 6, 7, 8 and 18

Management Goals: Develop age class distribution in aspen type. Develop the quality while maintaining diversity in hardwood types. Maintain health of conifer types and increase acreage where possible. Develop buffers on streams. Maintain and improve road system.

Soil and Topography: Flat to rolling hills with lowland swamps and drainages.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State lands mixed with private parcels. Lands used mainly for hunting and fishing.

Unique, Natural Features: Ford River makes up part of the Southern boundary and the Two Mile Creek makes up most of the Eastern boundary for the compartment.

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations: None known.

Watershed and Fisheries Considerations:

Wildlife Objectives: Bald eagle* nest in the south half of Section 12. Eagle, osprey, and loon to northwest. Red-disked alpine to west. Potential for goshawk, red-shouldered hawk, great blue heron rookery, eagle, and osprey. Potential for wood turtle along drainage. Potential for moose and gray wolf.

Mineral, Oil and Gas Considerations: Surface sediments consist of peat and muck, glacial outwash sand and gravel and postglacial alluvium and medium-textured till. The glacial drift thickness varies between 10 and 100 feet. The Precambrian Michigamme Formation subcrops below the glacial drift. There is not a current economic use for these rocks. The Groveland Iron Mine is located approximately nine miles to the south. A gravel pit is located in Section 20 and there is potential on the uplands. Part of this area was previously leased for metallic exploration and potential may still exist. There is no economic oil and gas production in the UP.

Vehicle Access: Two Mile Creek Road and Turner Road and connected woods roads.

Survey Needs: Two possible trespass cases.

Recreational Facilities and Opportunities: Fishing and hunting. Both the Ford River and Two Mile Creek are good trout streams. Deer and grouse hunting are good in this compartment.

Fire Protection:

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: 44

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	631																										631
G Grass					224																						224
J Jack Pine							285																				285
L LowInd Brush									209																		209
P LowInd Poplr										5																	5
Q Mx Swmp Cnfr												606															606
X Non Stocked													6														6
R Red Pine															714												714
F Spruce Fir																			93								93
M Upland Hdwds																									32		32
W White Pine																										16	16
Total	631				224		285		209	5		606	6		714				93						32	16	2821

COPPER COUNTRY STATE FOREST

CRYSTAL FALLS FOREST MGT UNIT

DICKINSON COUNTY

COMPARTMENT: **44**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	7425 Cds	Hardwood	3906 Cds
Softwood	29510 Cds	Softwood	2836 Cds
Softwood	1211 Mbf	Sum CutVol	6742 Cds
Sum TotVol	39357 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	367
	2821		

CRYSTAL FALLS FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 44

Entry Year: 2010

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
5	A6	92	67	60	aspen (upland)	mature	final harvest	1		
comnts Fmd : Retention will be along Q-types on both the East and West. The transition zone will be retained along Q-type to the East.										
6	R6	55	53	60	red pine	immature	thinning	1		
comnts Fmd : Some large red pine will be kept for retention.										
8	M6	9	73	50	northern hardwood	immature	selection	1		
comnts Fmd : Select cut. Will leave some large maple for retention. Maintain or increase size of hardwood stand.										
Wld : Retain Oak and W.Pine/R.Pine. Buffer bordering Q types and wet areas/drainages. "Mesic Conifer" candidate for underplanting with hemlock or white pine.										
9	R6	10	52	60	red pine	immature	thinning	1		
comnts Fmd : Some large red pine will be kept for retention.										
10	R6	25	53	60	red pine	immature	thinning	1		
comnts Fmd : Transition zone will be retained along Q-type to the NE and will serve as retention for this stand.										
43	R6	88	53	60	red pine	immature	thinning	1		
comnts Fmd : Keep some large red pine for retention. Buffer bordering Q stand.										
Wld : Leave WPIne for retention. Buffer 300' for Two Mile Creek.										
62	A6	5	41	55	aspen (upland)	immature	final harvest	1		
comnts Fmd : Cut with stand 63. Retention will be along Q-type to the West.										
63	A6	15	73	55	aspen (upland)	mature	final harvest	1		
comnts Fmd : Leave 300 foot buffer along the Ford River. Retention will be along the river to the South.										
Wld : Buffer Lowland type within mid-stand.										
Total Acres.....		299								

CRYSTAL FALLS FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 44

Entry Year: 2010

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
41	R6	19	52	60	red pine	two aged	thinning	1		

TREATMENT LIMITING FACTORS: Interest group (name in comments)

comnts Fmd : This stand is in a parcel that is being traded away. Stand will only be cut if parcel is not traded. Retention would be along the L-type to the North. No oak or white pine will be cut.

Wld : Deeryard. See locked comments

56	R6	49	52	60	red pine	immature	thinning	1		
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TREATMENT LIMITING FACTORS: Interest group (name in comments)

comnts Fmd : This stand is in a parcel that is being traded away. Stand will only be cut if parcel is not traded. Retention would be along the Q-type to the NW and the L-type to the SE.

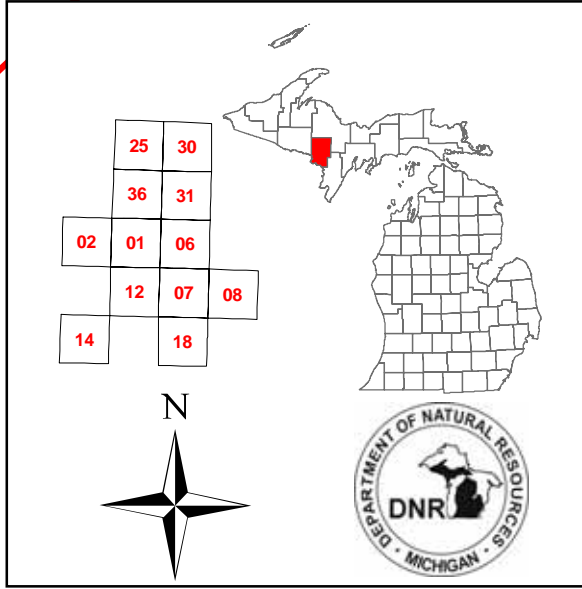
Wld : Leave Oak and white pine. See locked WLD comments for compartment before setting up sale and actual harvest.

Total Acres..... 68

Covertypes & Treatment Map

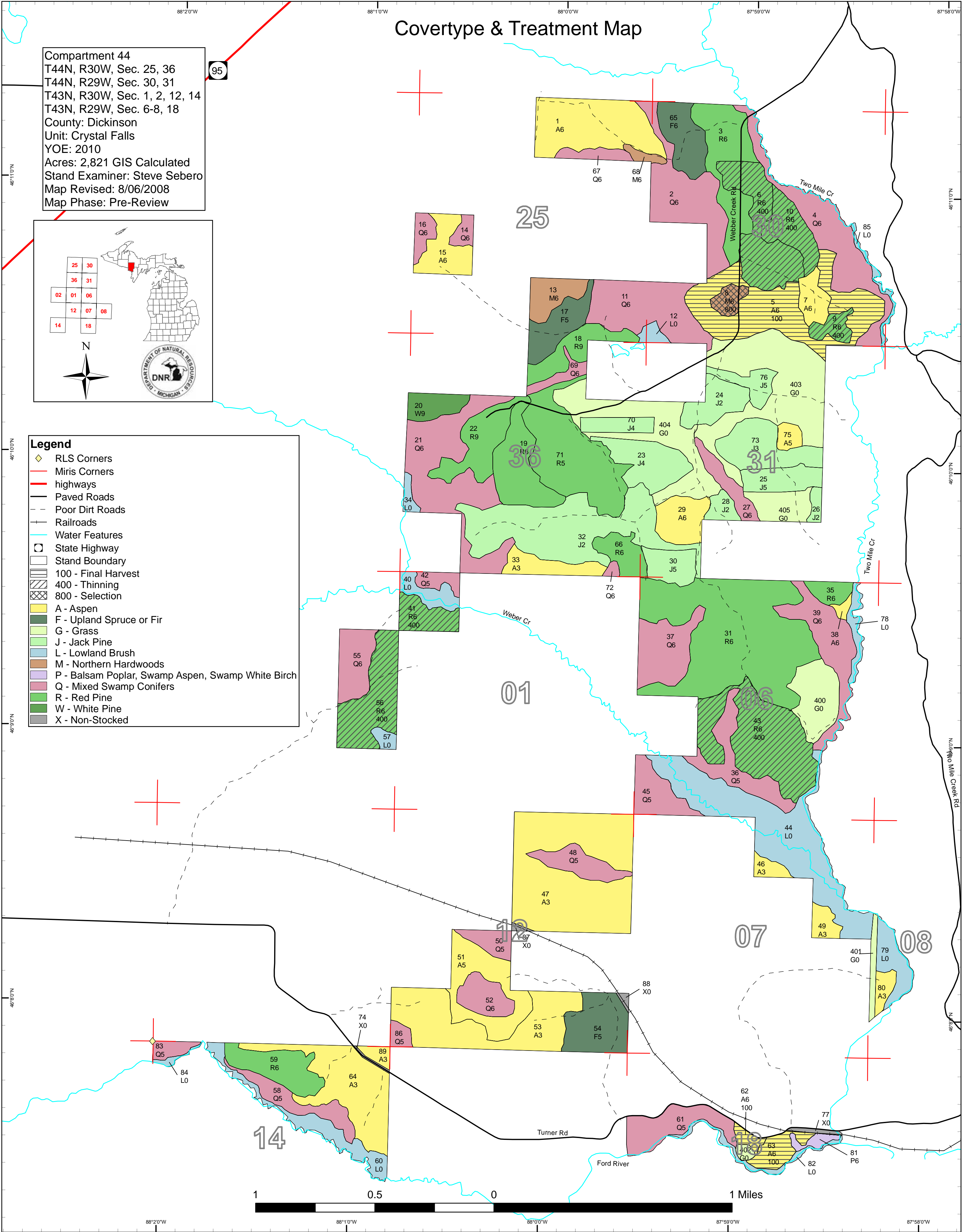
Compartment 44
 T44N, R30W, Sec. 25, 36
 T44N, R29W, Sec. 30, 31
 T43N, R30W, Sec. 1, 2, 12, 14
 T43N, R29W, Sec. 6-8, 18
 County: Dickinson
 Unit: Crystal Falls
 YOE: 2010
 Acres: 2,821 GIS Calculated
 Stand Examiner: Steve Sebero
 Map Revised: 8/06/2008
 Map Phase: Pre-Review

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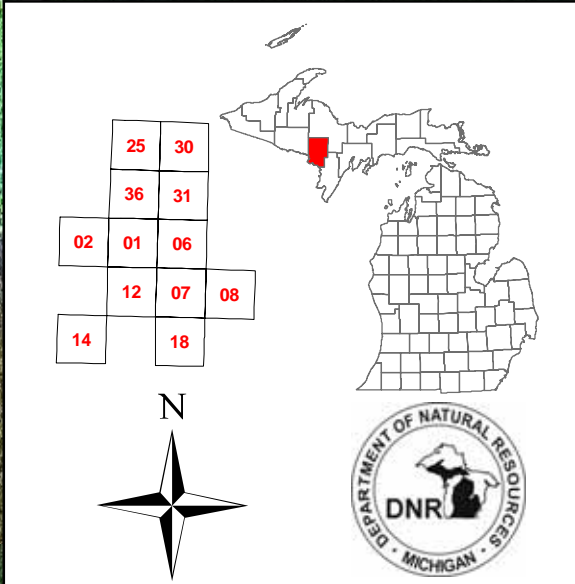
Legend

- RLS Corners
- Miris Corners
- highways
- Paved Roads
- Poor Dirt Roads
- Railroads
- Water Features
- State Highway
- Stand Boundary
- 100 - Final Harvest
- 400 - Thinning
- 800 - Selection
- A - Aspen
- F - Upland Spruce or Fir
- G - Grass
- J - Jack Pine
- L - Lowland Brush
- M - Northern Hardwoods
- P - Balsam Poplar, Swamp Aspen, Swamp White Birch
- Q - Mixed Swamp Conifers
- R - Red Pine
- W - White Pine
- X - Non-Stocked

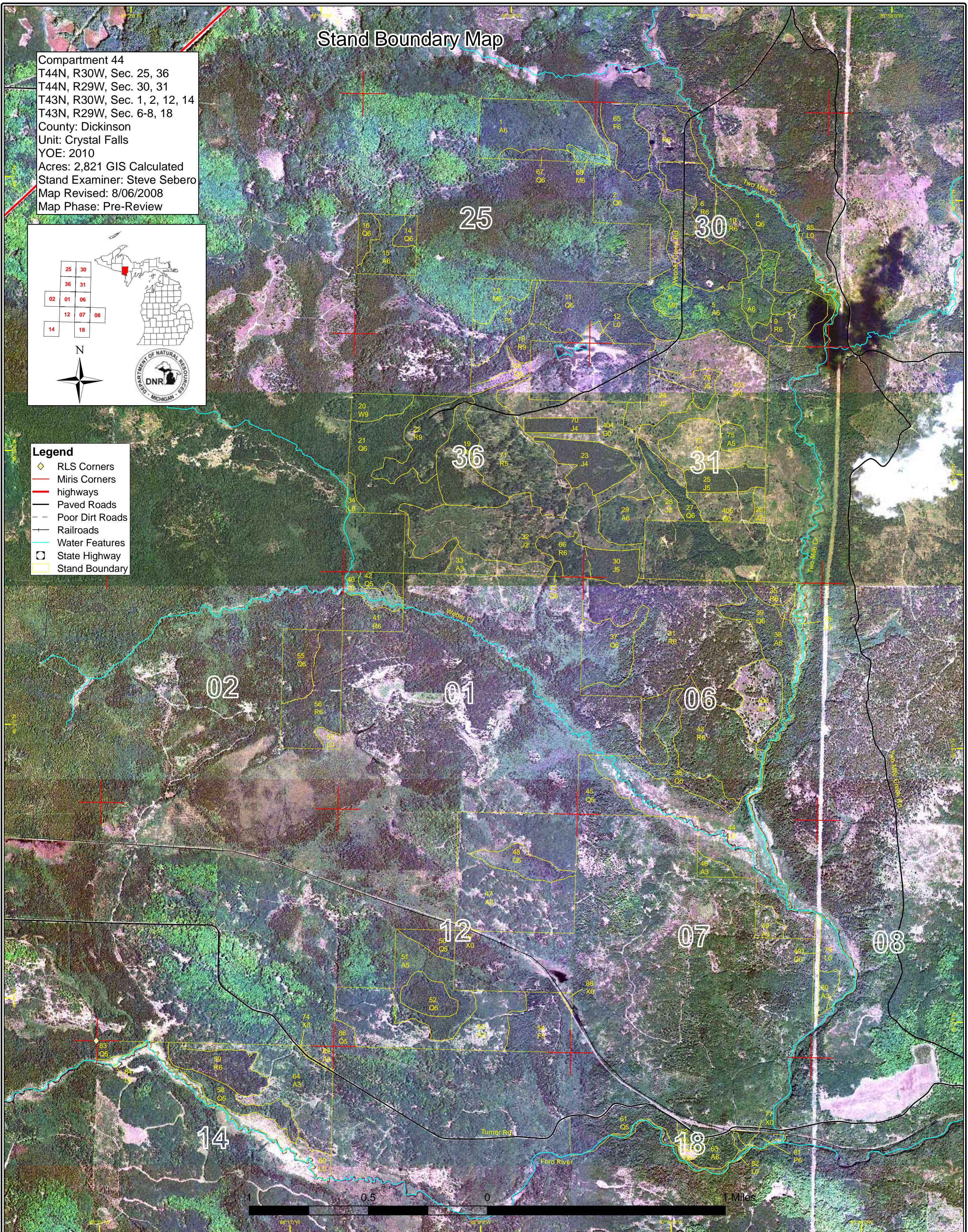


Stand Boundary Map

Compartment 44
 T44N, R30W, Sec. 25, 36
 T44N, R29W, Sec. 30, 31
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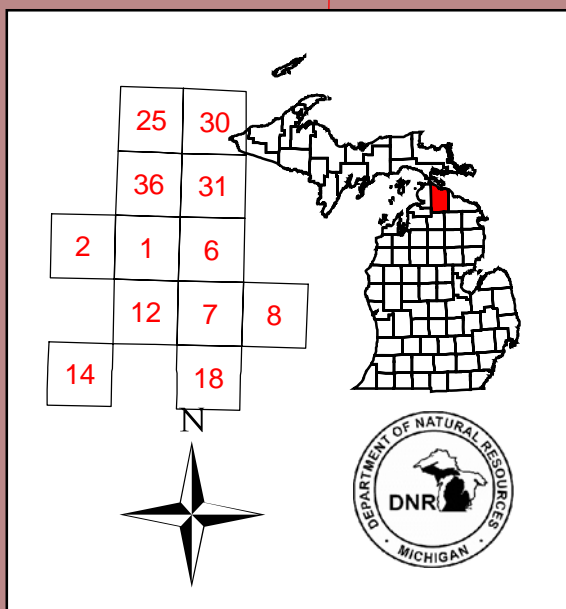


- Legend**
- ◆ RLS Corners
 - Miris Corners
 - highways
 - Paved Roads
 - - - Poor Dirt Roads
 - Railroads
 - Water Features
 - State Highway
 - Stand Boundary

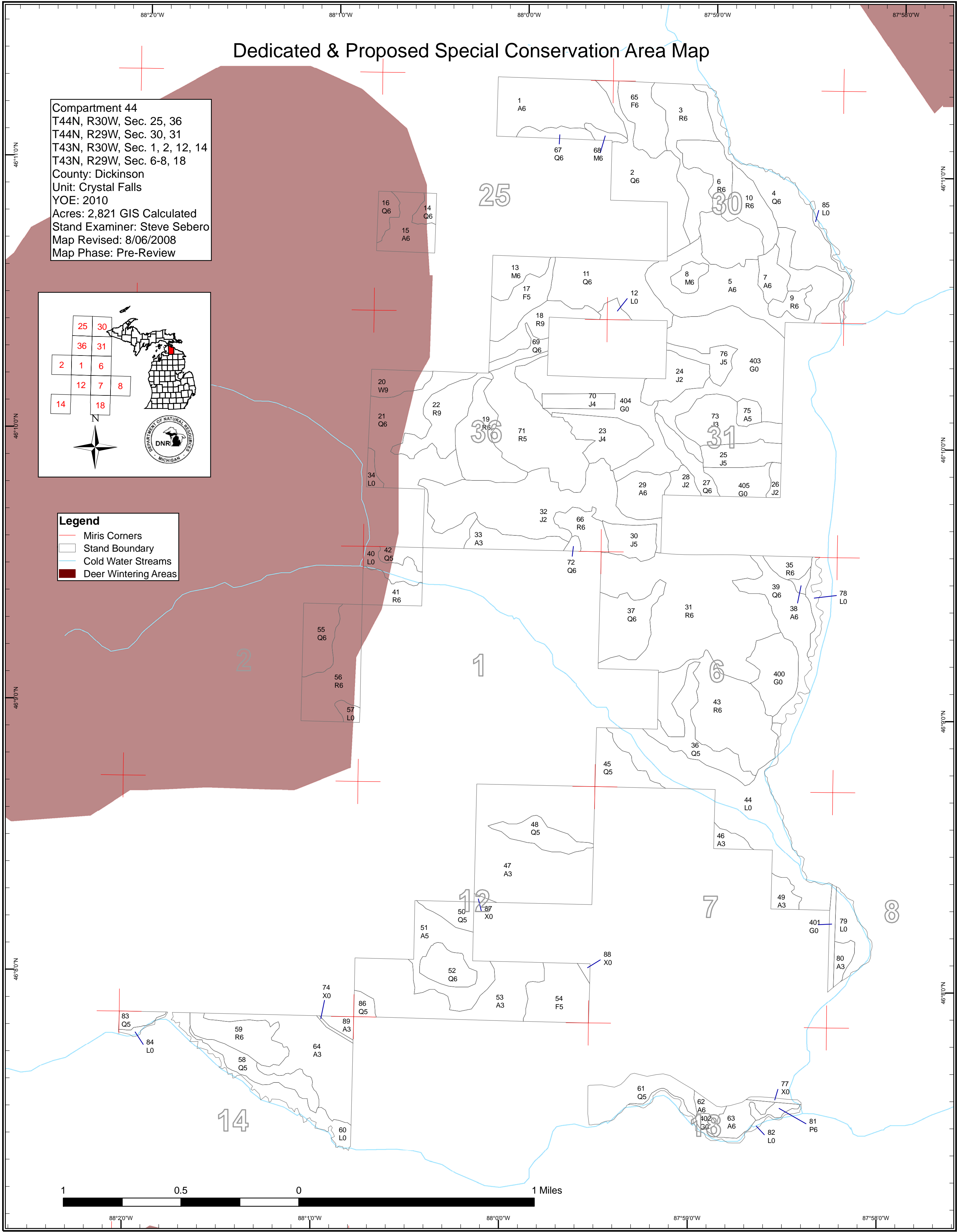


Dedicated & Proposed Special Conservation Area Map

Compartment 44
 T44N, R30W, Sec. 25, 36
 T44N, R29W, Sec. 30, 31
 T43N, R30W, Sec. 1, 2, 12, 14
 T43N, R29W, Sec. 6-8, 18
 County: Dickinson
 Unit: Crystal Falls
 YOE: 2010
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 Stand Examiner: Steve Sebero
 Map Revised: 8/06/2008
 Map Phase: Pre-Review



- Legend**
- + Miris Corners
 - Stand Boundary
 - Cold Water Streams
 - Deer Wintering Areas



1 0.5 0 1 Miles



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.