



**Crystal Falls Forest Management Unit  
Compartment Review Presentation  
Compartment #194 Entry Year: 2011  
Compartment Acreage: 1410 County: Iron**

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**Revision Date:** November 20, 2008

**Stand Examiner:** Linda Lindberg

**Legal Description:** T44N, R31W, Sections 1, 2, 11 and 12

**RMU (if applicable):**

**Management Goals:** Sustainably harvesting the timber in this compartment, by working toward age class distribution in the aspen, coordinating the hardwood harvest with compartment 115, and making sure we have proper buffers along the lakes, ponds and wet areas along with the Fence River and Three Mile Creek as to maintain the wetland's integrity, and provide habitat for those species that inhabit those areas and others.

**Soil and Topography:** This area is fairly flat and has not much relief to deal with.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** There is some industrial land surrounding this compartment and also, a fair amount of camps on private land. The State has somewhat contiguous ownership here.

**Unique, Natural Features:** The Fence River is on the west side of this compartment. Crescent Pond, and Spot Lake are also in this compartment.

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

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

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:**

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and minor end moraine of coarse-textured till. The glacial drift thickness varies between 10 and 50 feet. The Precambrian Michigamme Formation subcrops below the glacial drift. There is not a current economic use for these formations. The abandoned Republic iron mine is located nine miles to the northeast. Part of this compartment was previously leased for metallic exploration. Gravel pits are not located in the area, but there could be some potential. There is no economic oil and gas production in the Upper Peninsula.

**Vehicle Access:** Access to this compartment is from Dickinson County, unless you want to ford the Fence River. There is a fair amount of access throughout the compartment, but sometimes it does go through private land that is not blocked in most areas.

**Survey Needs:** Since some land was deeded to Gus Newberg, there is a strip of land that belongs to him now that has corners on the section line, but it would be nice to have corners at what is now the state property line so stand 13 could be cut.

**Recreational Facilities and Opportunities:** There are no facilities to speak of, but the Fence River is a good river to canoe or fish. There is an unofficial campsite on Crescent Pond. Spot Lake is fairly low all the way around, therefore close access is not available.

**Fire Protection:** Although industry has pine surrounding the compartment, this is a fairly fire safe area. Because access is good, fire is not really a large threat here and protection would be good.

#### **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

IRON COUNTY

COMPARTMENT: 194

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		206	81	448	188					63									986
Black Spruce					7				33	8	2								50
Grass	4																		4
Lowlnd Brush	54																		54
Mx Swmp Cnfr					16			13	122	6									157
Non Stocked	1																		1
Red Pine											2								2
Spruce Fir										2	9								11
Treed Bog	2																		2
Upland Hdwds																		25	25
Water	38																		38
White Pine									59			21							80
<b>Total</b>	<b>99</b>	<b>206</b>	<b>81</b>	<b>448</b>	<b>211</b>			<b>13</b>	<b>214</b>	<b>79</b>	<b>13</b>	<b>21</b>						<b>25</b>	<b>1410</b>

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

COPPER COUNTRY STATE FOREST

CRYSTAL FALLS FOREST MGT UNIT

IRON COUNTY

COMPARTMENT: 194

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	986																										986
S Black Spruce		50																									50
G Grass					4																						4
L Lowlnd Brush									54																		54
Q Mx Swmp Cnfr												157															157
X Non Stocked													1														1
R Red Pine																2											2
F Spruce Fir																			11								11
D Treed Bog																						2					2
M Upland Hdwds																								25			25
Z Water																									38		38
W White Pine																										80	80
<b>Total</b>	<b>986</b>	<b>50</b>			<b>4</b>				<b>54</b>			<b>157</b>	<b>1</b>			<b>2</b>			<b>11</b>			<b>2</b>		<b>25</b>	<b>38</b>	<b>80</b>	<b>1410</b>

COPPER COUNTRY STATE FOREST

CRYSTAL FALLS FOREST MGT UNIT

IRON COUNTY

COMPARTMENT: **194**

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	4922 Cds	Hardwood	2212 Cds
Hardwood	62 Mbf	Softwood	1281 Cds
Softwood	5387 Cds	Softwood	42 Mbf
Softwood	1071 Mbf	Sum CutVol	3577 Cds
Sum TotVol	12575 Cds		
<b>Total Cmpnt Acres</b>		Acres Proposed For Cut.....	142
1410			

**CRYSTAL FALLS FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 194**    **Entry Year: 2011**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
13	A6	63	85	60	aspen (upland)	mature	final harvest	1		

comnts Fmd : The red and white pine will be left and there are wet areas that could have a buffer left.

53	A6	79	34	65	aspen (upland)	mature	final harvest	1		
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comnts Fmd : There are some lower areas in this stand that will probably be left out.

**Total Acres..... 142**

**Proposed Treatments  
With Limiting Factors**

**Compartment: 194**

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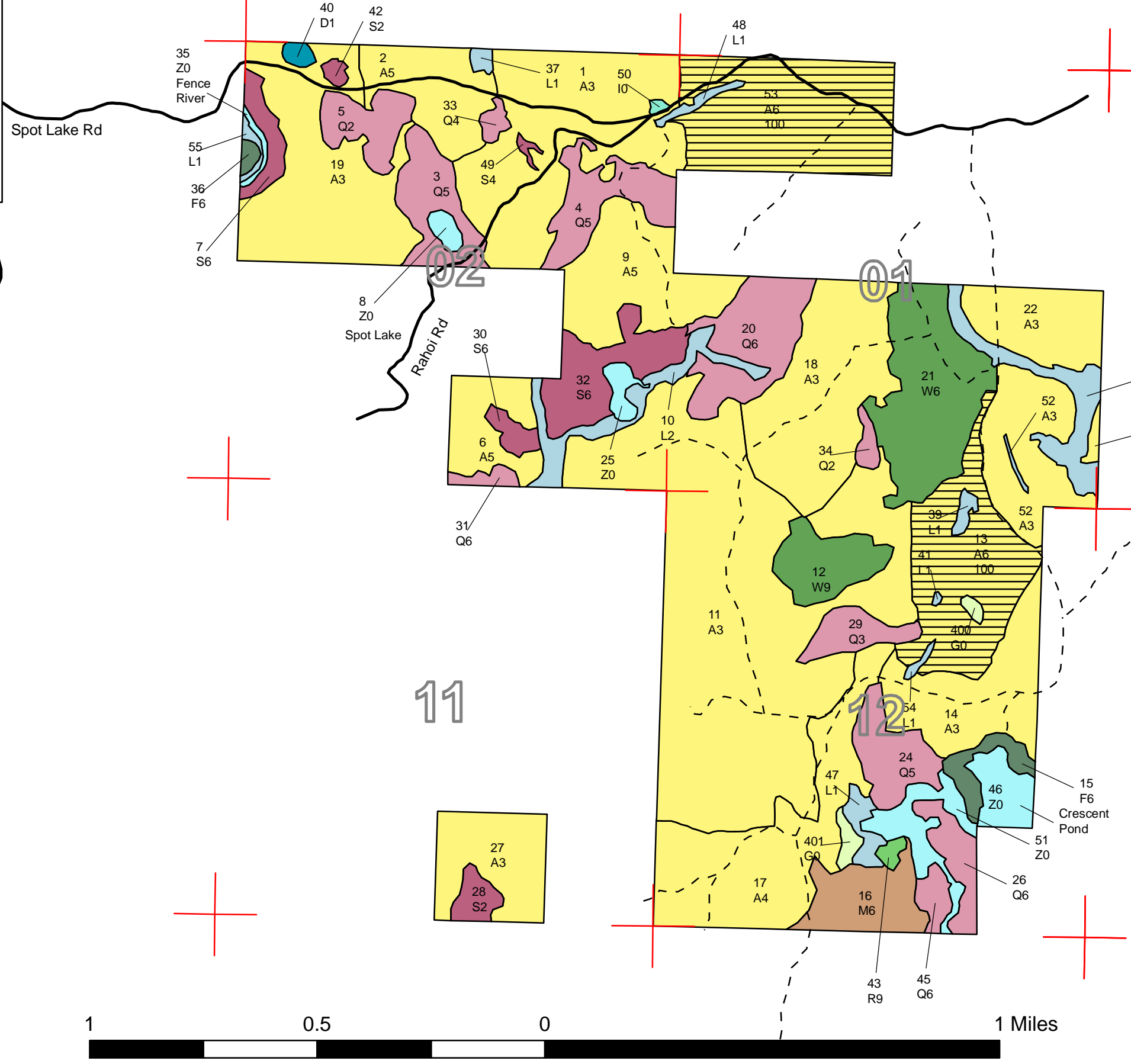
**Total Acres..... 0**

# Covertypes & Treatment Map

Compartment 194  
 T44N, R31W, Sec. 1, 2, 11, 12  
 County: Iron  
 Unit: Crystal Falls  
 YOE: 2011  
 Acres: 1410 GIS Calculated  
 Stand Examiner: Linda Lindberg  
 Map Revised: 7/28/2009  
 Map Phase: Pre-Review

02	01
11	12

N

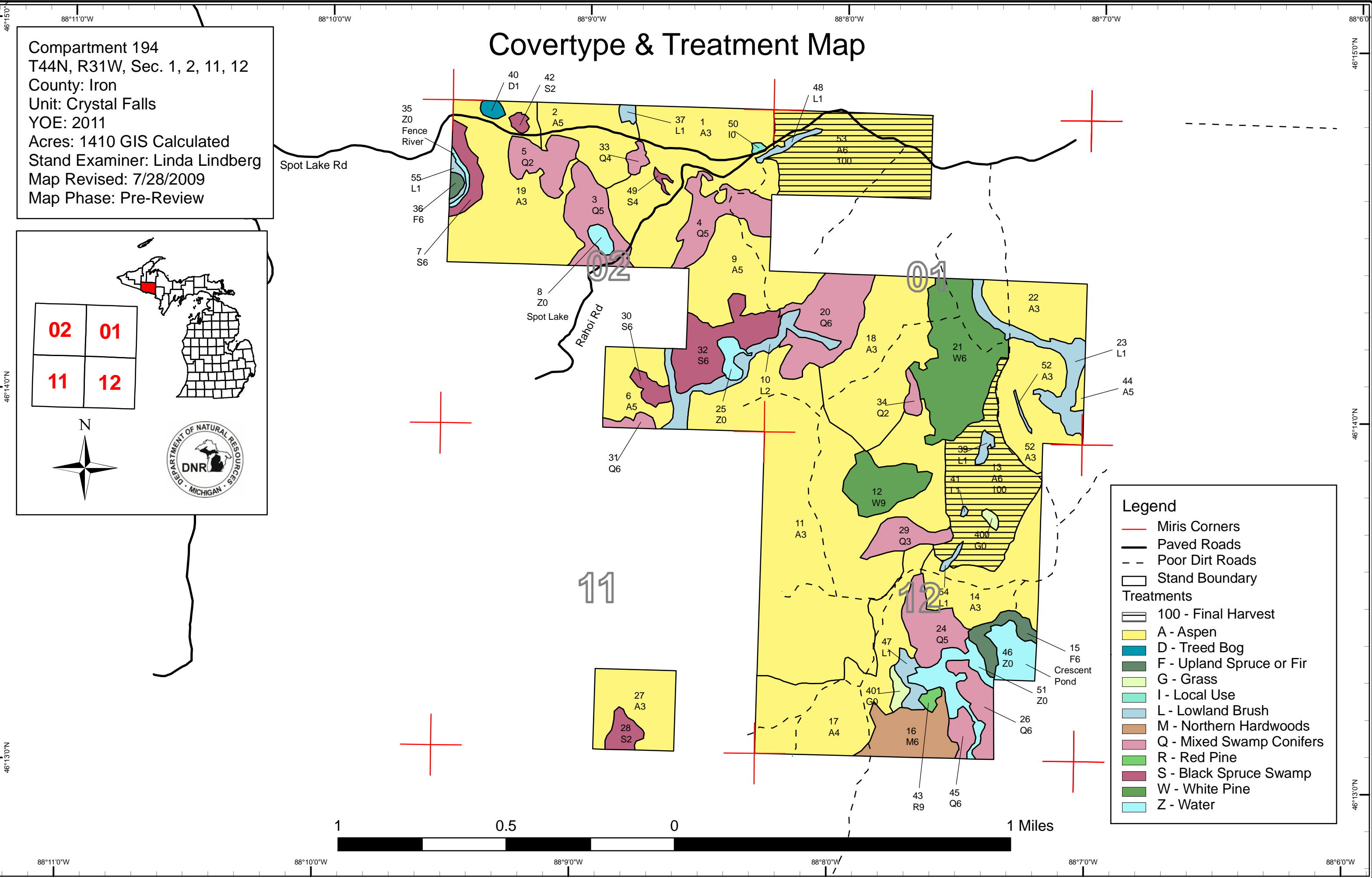


**Legend**

- Miris Corners
- Paved Roads
- Poor Dirt Roads
- Stand Boundary

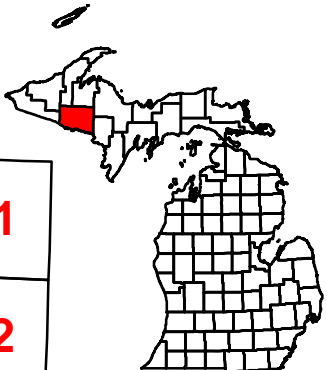
**Treatments**

- 100 - Final Harvest
- A - Aspen
- D - Treed Bog
- F - Upland Spruce or Fir
- G - Grass
- I - Local Use
- 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 194  
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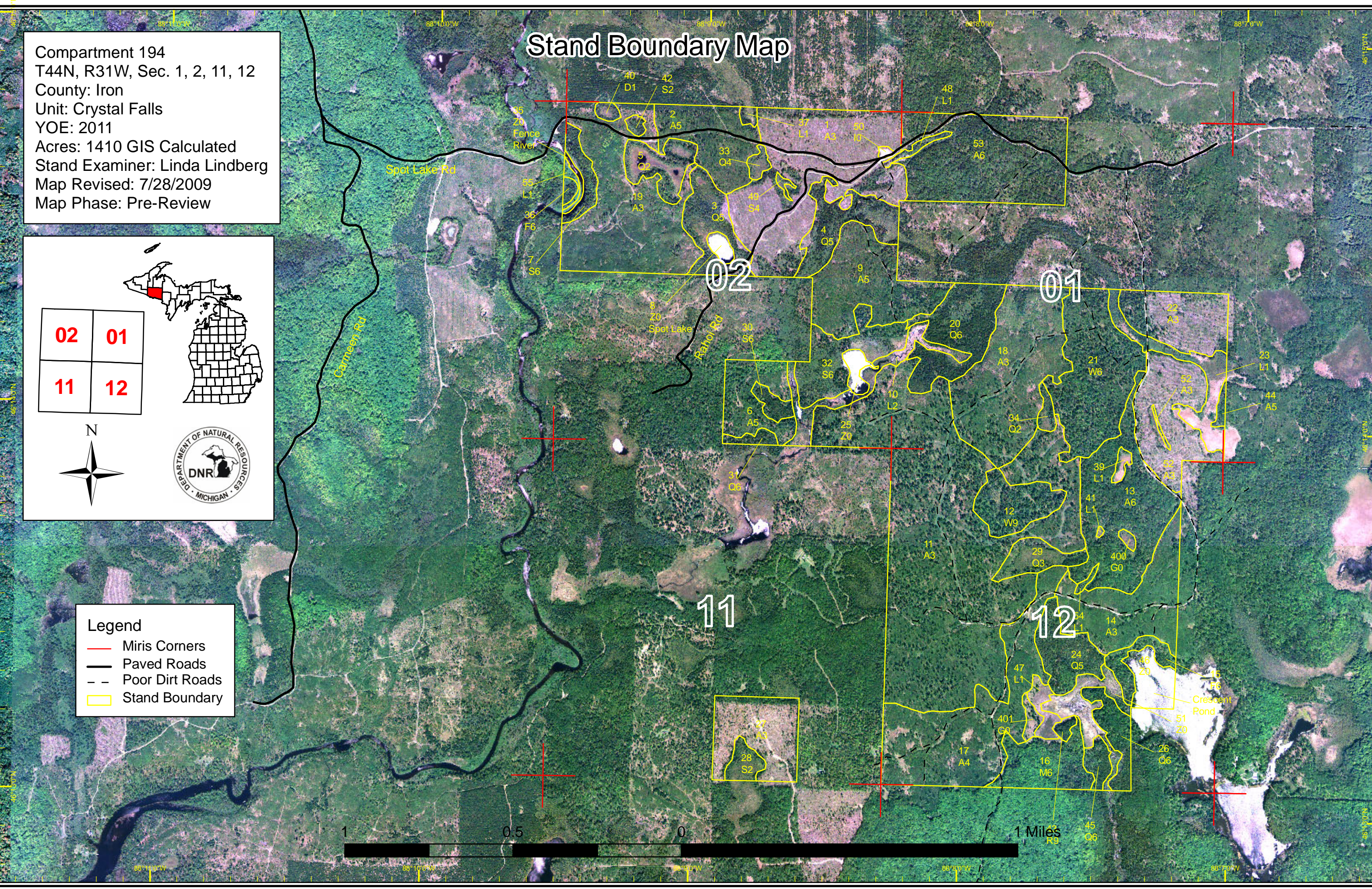
02	01
11	12

N

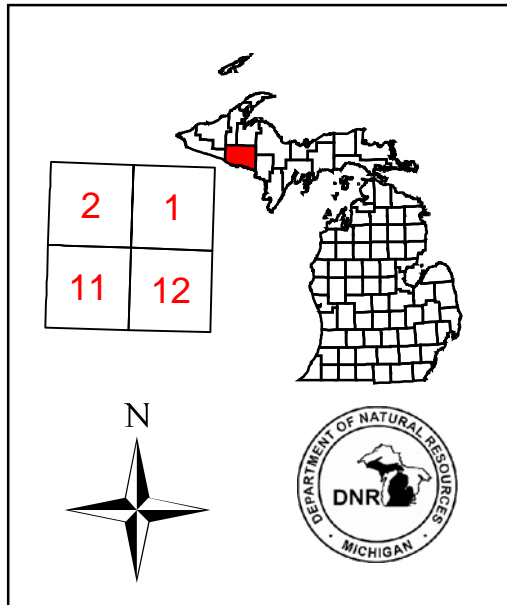
## Legend

- Miris Corners
- Paved Roads
- Poor Dirt Roads
- Stand Boundary



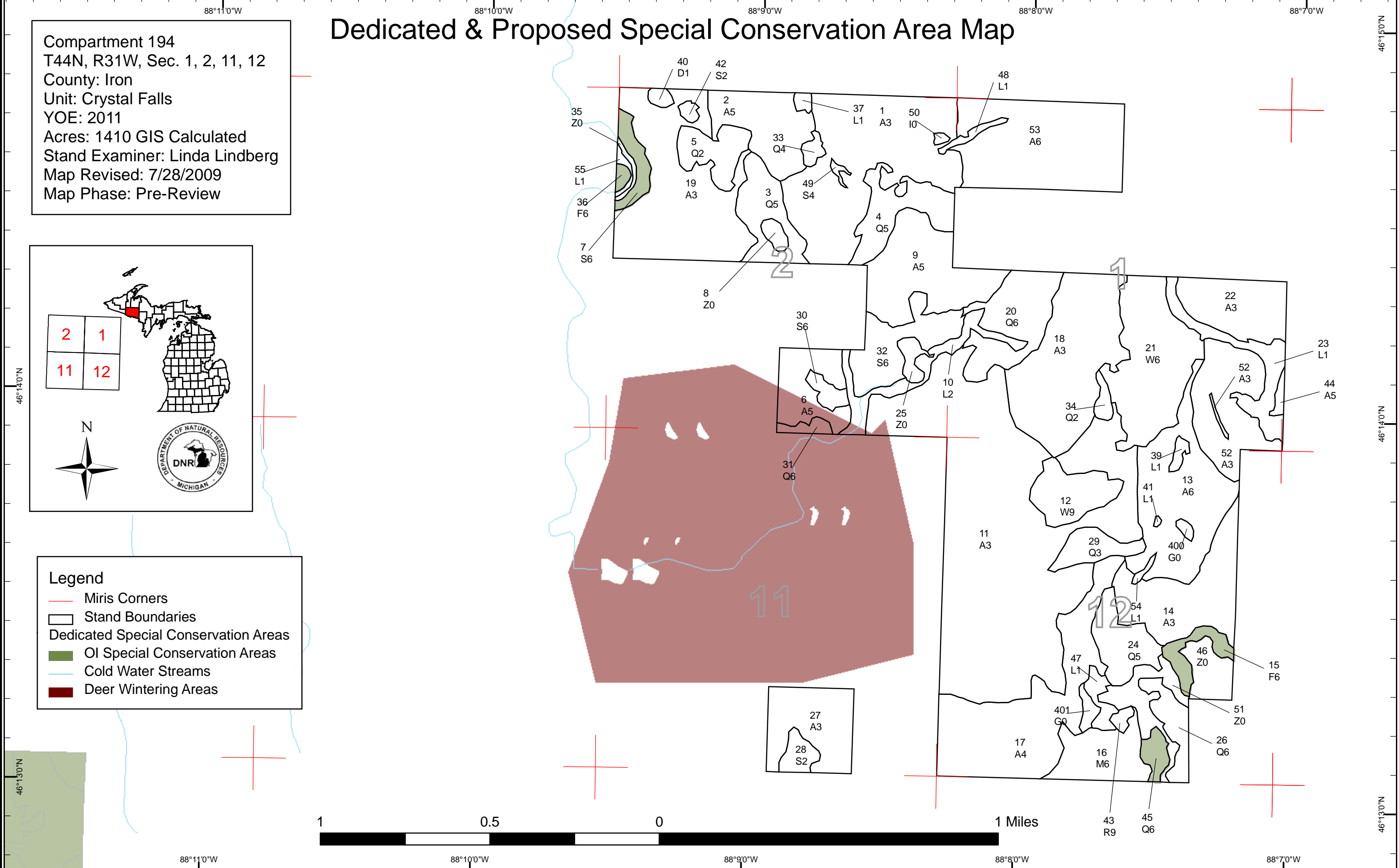
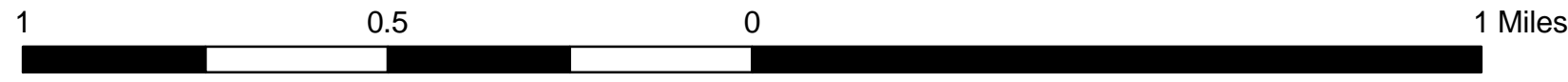
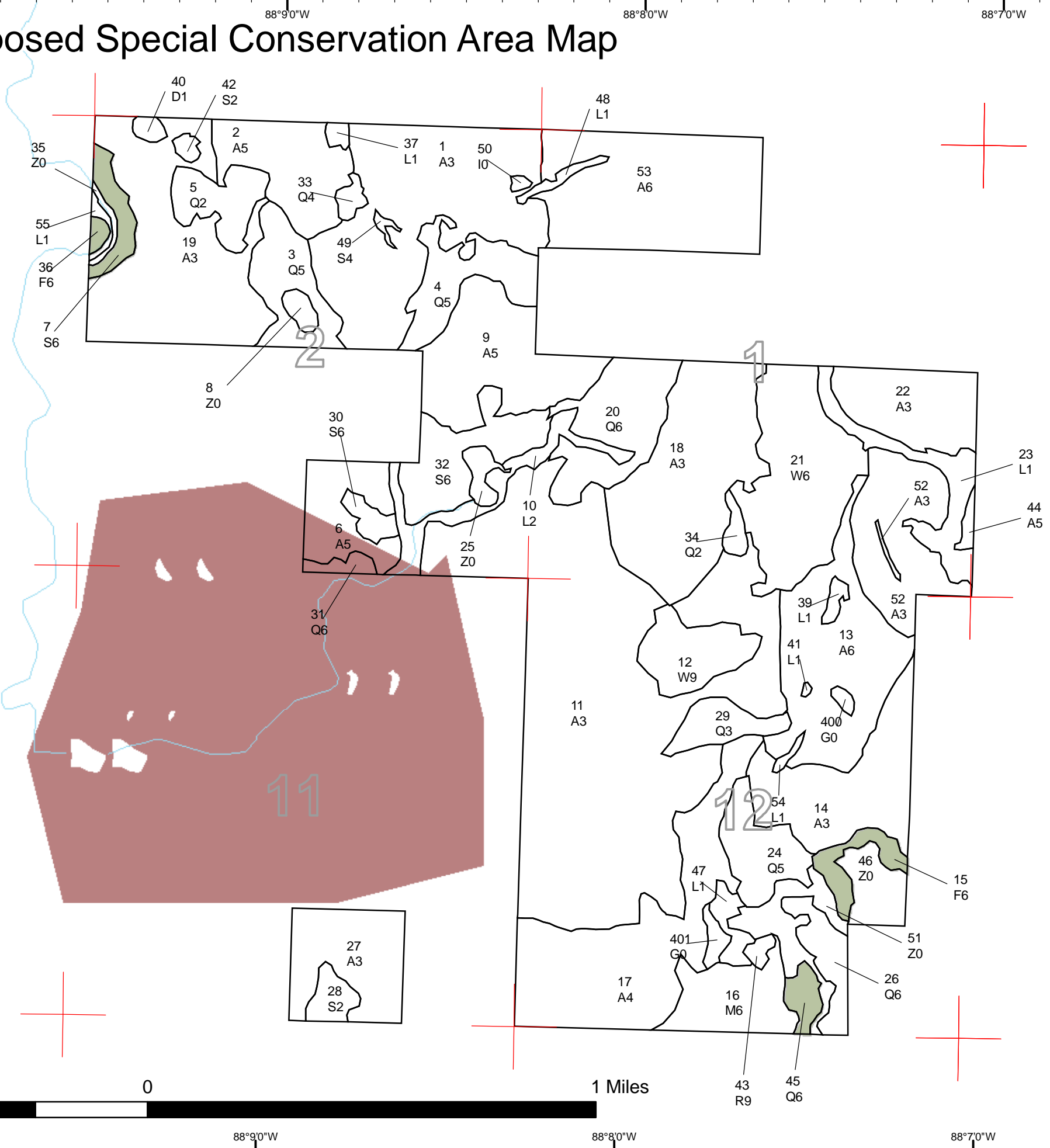
# Dedicated & Proposed Special Conservation Area Map

Compartment 194  
 T44N, R31W, Sec. 1, 2, 11, 12  
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 Map Revised: 7/28/2009  
 Map Phase: Pre-Review



**Legend**

- Miris Corners
- Stand Boundaries
- OI Special Conservation Areas
- 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.