



CRYSTAL FALLS FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT #134 - ENTRY YEAR: 2010
Compartment Acreage: 557 - County: Iron

Revision Date: November 16, 2007

Stand Examiner: Linda Lindberg

Legal Description: T45N, R34W, Section 32

Management Goals: The compartment is comprised primarily of aspen, but has some very good quality red and white pine. Maintain the current timber types but look for opportunities to increase the conifer component, especially in areas where aspen regeneration has been spotty. Develop long rotation species within buffers along the Net River.

Soil and Topography: The terrain is fairly rolling.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The compartment is surrounded by a mix of corporate and private land.

Unique, Natural Features: The Net River winds through the middle of this compartment, dividing it for access purposes. The Net River boat access site is on the east side of the river.

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations: Special consideration along rivers, creeks, wetlands and the river.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: Bald eagle occurrence to the north of the compartment. Potential for goshawk, red-shouldered hawk, great blue heron rookery, eagle, and osprey. Potential for wood turtle along Net River. Potential for moose and gray wolf. Potential for Assiniboia sedge in northern hardwoods, Calypso orchid to west. Good nesting area.

Mineral, Oil and Gas Considerations: Surface sediments consist of an end moraine of coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Precambrian Michigamme Formation subcrops below the glacial drift. There is not a current economic use for these rocks. The abandoned Warner and Porter iron mines are located six miles to the southeast. This compartment was not previously leased for metallic exploration, but potential could exist. Gravel pits are not located in the area, but there should be some potential. There is no economic oil and gas production in the UP.

Vehicle Access: Access to the east side of the compartment is from the Net River Road. The west side of the Net River must be accessed from private and USFS lands. A road system exists throughout most of the compartment and access has not been an issue in the past.

Survey Needs: None known.

Recreational Facilities and Opportunities: This area has good fishing, canoeing, kayaking, and hunting opportunities, access to the river is via the state owned boat launch.

Fire Protection: This area has a somewhat higher fire danger due to the drier pine areas in the compartment.

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: 134

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not Coded	STAND AGE CLASS																All Aged	Total
		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		
Aspen			120	73		45													238
Bog or Marsh	3																		3
Grass	33																		33
Lowlnd Brush	38																		38
Mx Swmp Cnfr									34										34
Red Pine													15						15
Spruce Fir			6			47			23	18									94
Swamp Hrdwds																		22	22
Upland Hdwds																		46	46
Water	34																		34
Total	108		126	73		92			57	18			15					68	557

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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: 134

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	238																										238
V Bog or Marsh			3																								3
G Grass					28											5											33
L Lowlnd Brush									38																		38
Q Mx Swmp Cnfr												34															34
R Red Pine																15											15
F Spruce Fir																			94								94
E Swamp Hrdwds																				22							22
M Upland Hdwds																								46			46
Z Water																									34		34
Total	238		3		28				38			34				20			94	22				46	34		557

COPPER COUNTRY STATE FOREST

CRYSTAL FALLS FOREST MGT UNIT

IRON COUNTY

COMPARTMENT: **134**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	2835 Cds	Hardwood	595 Cds
Hardwood	197 Mbf	Softwood	525 Cds
Softwood	1588 Cds	Softwood	73 Mbf
Softwood	528 Mbf	Sum CutVol	1266 Cds
Sum TotVol	5873 Cds		
Total Cmpnt Acres		Acres Proposed For Cut.....	
557		41	

CRYSTAL FALLS FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 134 Entry Year: 2010

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
1	A2	63	14	55	aspen (upland)	immature		0	planting		
comnts Fmd : A lot of this stand has no regeneration in it and in looking back at the records, it was a birch stand and did not all regenerate to aspen as there wasn't enough aspen in the stand to begin with. The soil supports red pine, white pine and white spruce so that might be an option to plant in holes of which there are lots.											
12	F6	41	43	55	spruce-fir (uplands- including upland black spruce)	two aged	final harvest	1			
comnts Fmd : This is a two aged stand but since we are cutting the stands to the north, and access is difficult, it would be good to cut this too as it has a majority of mature trees in it. It is very rocky ground.											
17	A5	42	43	75	aspen (upland)	immature		0	planting		
comnts Fmd : This stand is very "off site" and I think pine should be underplanted and where it is open in the stand ,red pine should be planted since it is 9 sticks tall to the north and the soil is the same in this stand.											
401	G0	4			red pine	nonstocked		0	planting		
comnts Fmd : This was NOT an opening but did not regenerate and could be planted in red pine since it is the same soil as the stand to the north with the 9 stick red pine in it.											
402	G0	1			red pine	nonstocked		0	planting		
comnts Fmd : This was NOT an opening but did not regenerate and since it is the same soil type as the pine stand to the north that has 9 stick red pine, it would be good to plant red pine here.											
Total Acres.....		151									

**Proposed Treatments
With Limiting Factors**

Compartment: 134

Entry Year: 2010

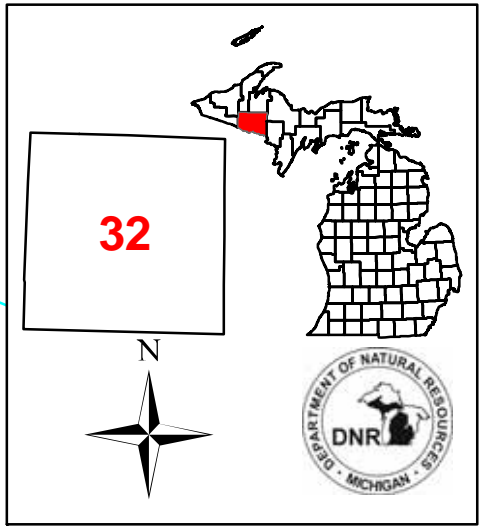
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

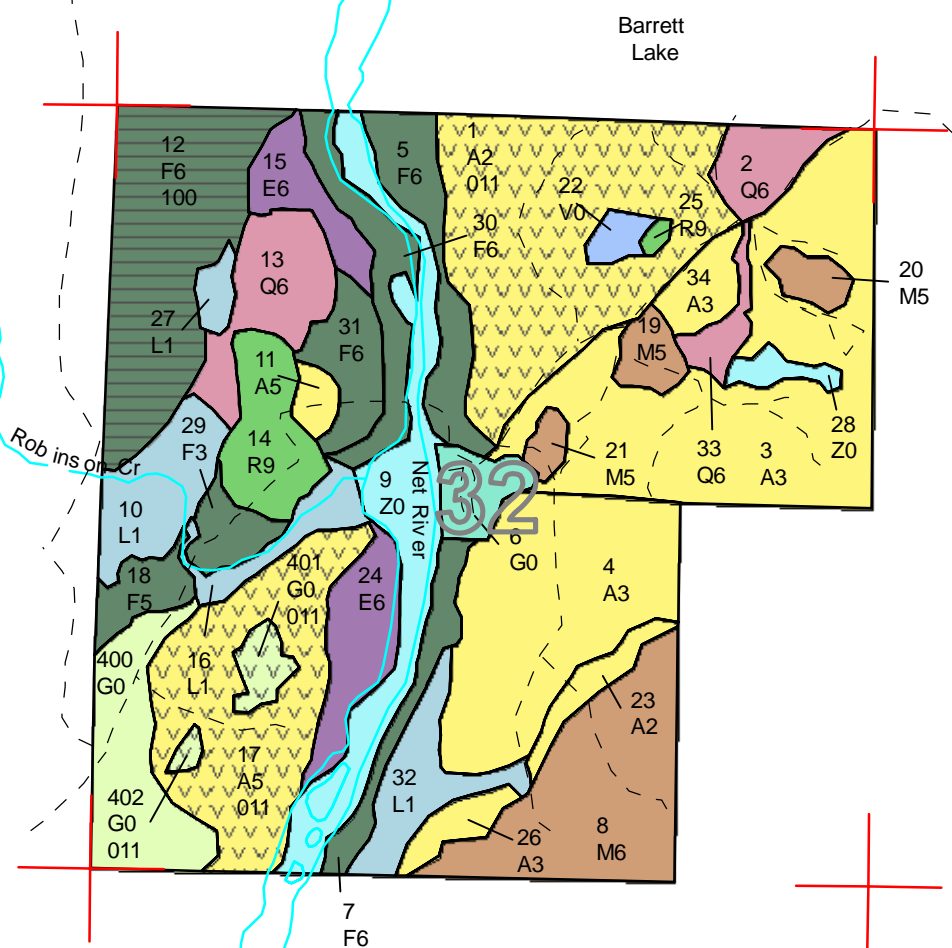
Covertime & Treatment Map

Compartment: 134
 T45N, R34W, Sec. 32
 County: Iron
 Unit: Crystal Falls
 YOE: 2010
 Acres: 557 GIS Calculated
 Stand Examiner: Linda Lindberg
 Map Revised: 8/12/08
 Map Phase: Pre-Review



Legend

- Miris Corners
- - - Poor Dirt Roads
- Water Features
- ▭ Stand Boundary
- VVV 011 - Planting/Hand Tools
- 100 - Final Harvest
- A - Aspen
- E - Swamp Hardwoods
- F - Upland Spruce or Fir
- G - Grass
- I - Local Use
- L - Lowland Brush
- M - Northern Hardwoods
- Q - Mixed Swamp Conifers
- R - Red Pine
- V - Bog or Muskeg
- Z - Water



88°36'0"W 88°35'0"W 88°34'0"W

46°16'0"N

46°15'0"N

46°14'0"N

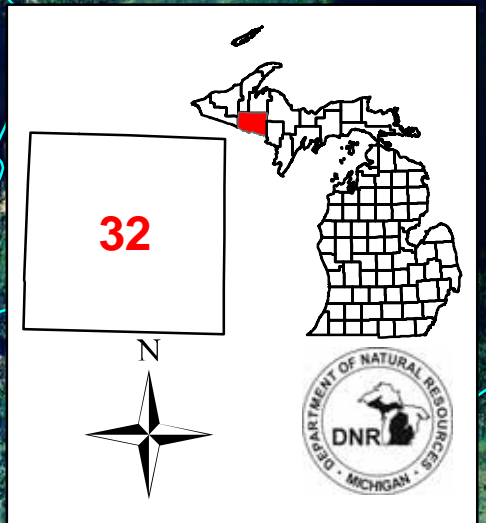
46°16'0"N

46°15'0"N

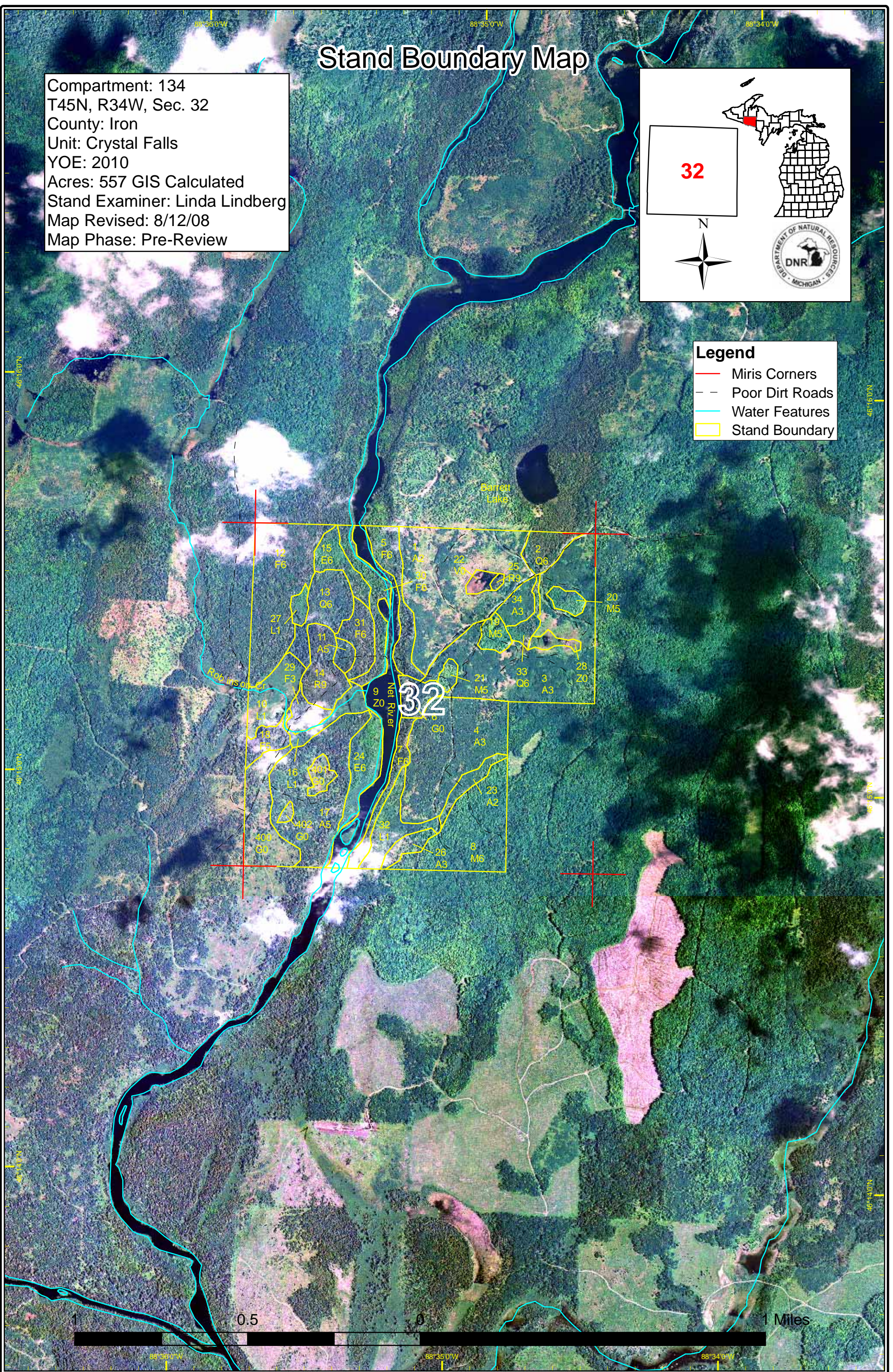
46°14'0"N

Stand Boundary Map

Compartment: 134
T45N, R34W, Sec. 32
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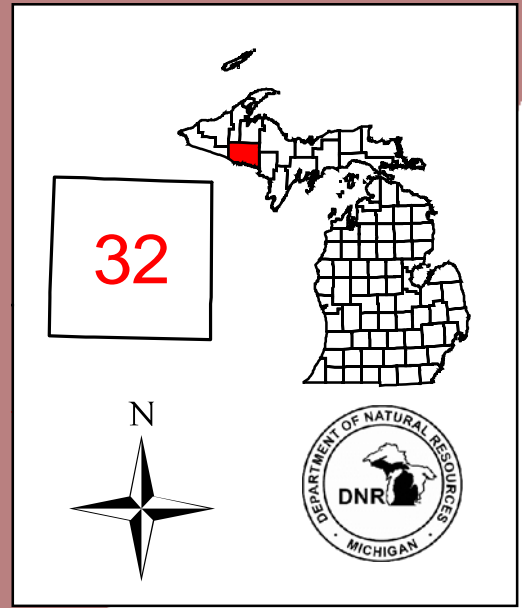


- Legend**
- Miris Corners
 - Poor Dirt Roads
 - Water Features
 - Stand Boundary

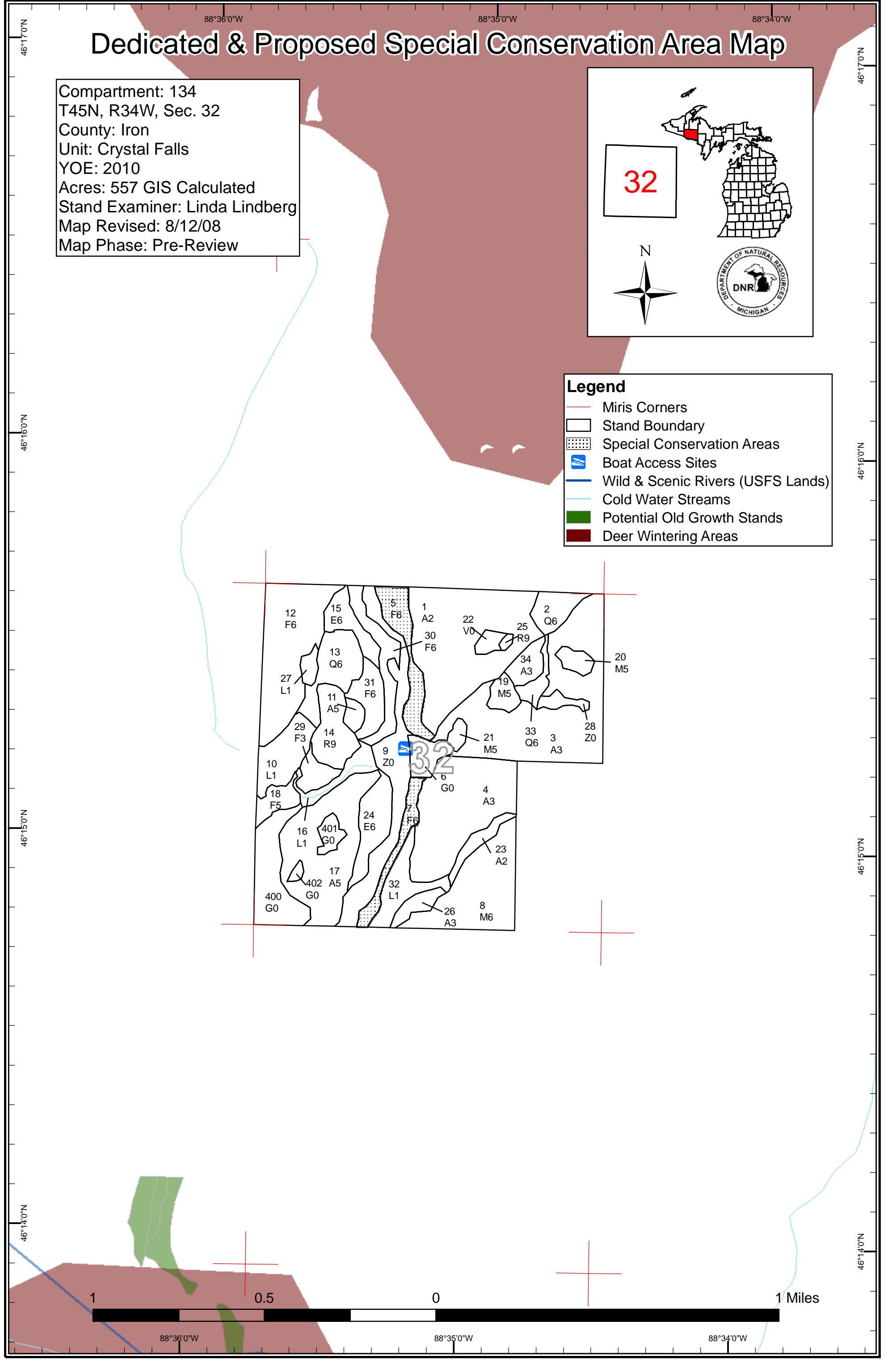
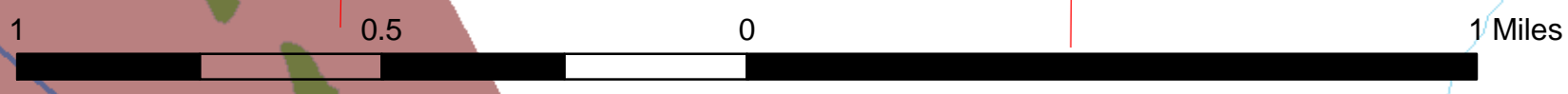
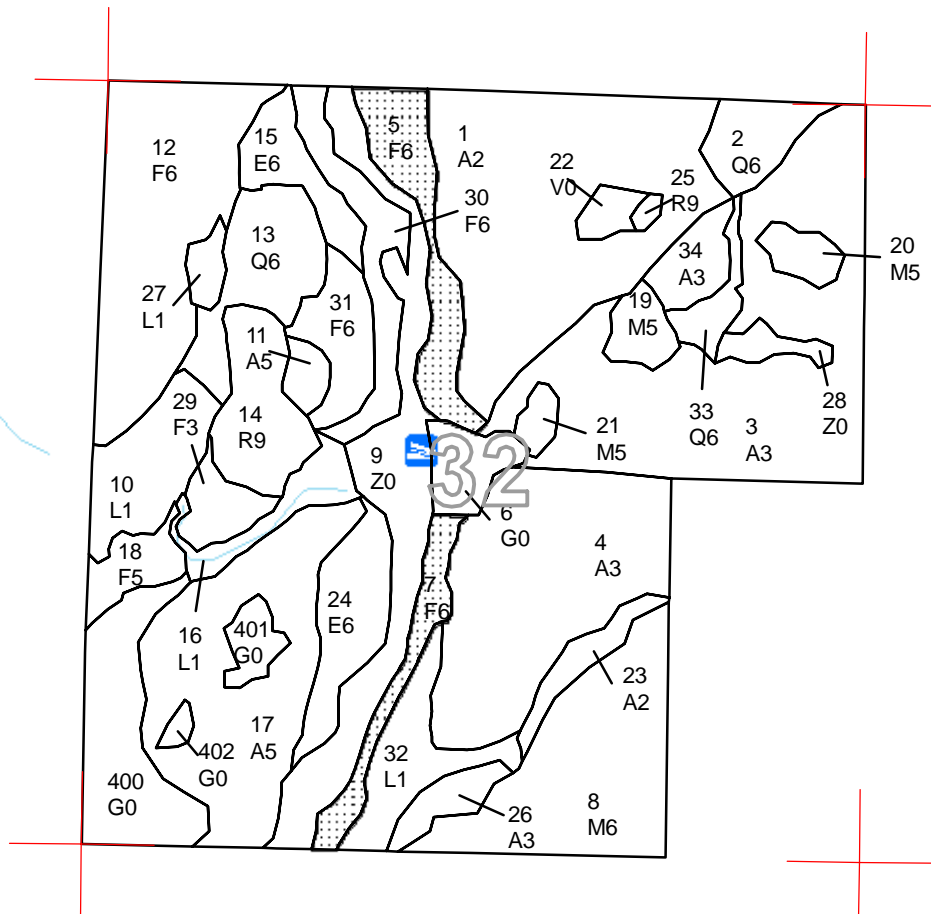


Dedicated & Proposed Special Conservation Area Map

Compartment: 134
 T45N, R34W, Sec. 32
 County: Iron
 Unit: Crystal Falls
 YOE: 2010
 Acres: 557 GIS Calculated
 Stand Examiner: Linda Lindberg
 Map Revised: 8/12/08
 Map Phase: Pre-Review



- Legend**
- Miris Corners
 - Stand Boundary
 - Special Conservation Areas
 - B Boat Access Sites
 - Wild & Scenic Rivers (USFS Lands)
 - Cold Water Streams
 - Potential Old Growth Stands
 - 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	Concentrated Recreation Area	Facilities that are designed and maintained for routine or heavy recreational use, including State Parks, State Forest campgrounds, motorized and non-motorized trails, trailheads, staging areas and public access sites.