



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

**COMPARTMENT #124 - ENTRY YEAR: 2010
Compartment Acreage: 1162 - County: Iron**

Revision Date: November 16, 2007

Stand Examiner: Linda Lindberg

Legal Description: T45N, R32W, Sections 31, 32 and 33

Management Goals: This compartment is predominantly hardwood along with some aspen. Some of the aspen is two aged and will not be prescribed at this time. Much of the hardwood has had recent management and will be held to gain better structure. Maintain types and work to develop buffers with long rotation species along rivers.

Soil and Topography: The terrain is fairly rolling with steep banks down to the river.

Ownership Patterns, Development, and Land Use in and Around the Compartment: There is a mixture of corporate and private land intermingled with the state land.

Unique, Natural Features: The Deer River winds through this compartment including Johnson Creek.

Archeological, Historical, and Cultural Features: None known.

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

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: Great blue heron rookery to the west of the compartment. Eagle to southeast. Potential for goshawk, red-shouldered hawk, great blue heron rookery, eagle, osprey, and loon. Potential for moose and gray wolf. Potential for red-disked alpine, freija fritillary and frigga fritillary in bogs. Good nesting area.

Mineral, Oil and Gas Considerations:

Surface sediments consist of coarse-textured till and an end moraine of coarse-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Precambrian Hemlock Formation and Intrusive subcrop below the glacial drift. There are no current economic uses for these rocks. The abandoned Warner iron mine is located four miles to the southwest. This compartment is not leased for metallic exploration, but leases are located just to the south in Compartment 125. Gravel pits are not located in this area, but there should be some potential. There is no economic oil and gas production in the UP.

Vehicle Access: Access is from the Deer Lake Road on the west side of the compartment as well as from the DNR Road. East of the Deer River is accessed from Bradley Road. A road system exists throughout most of the compartment, some of these roads cross private land but access has not been a problem in the past.

Survey Needs: None known.

Recreational Facilities and Opportunities: This area has good fishing, canoeing, kayaking, and hunting opportunities, some areas must be accessed on foot.

Fire Protection: Because the predominant timber type is hardwoods the potential for fire is low.

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: 124

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 | | 76 | 104 | 108 | | 210 | | | | 54 | | | | | | | | | 552 |
| Black Spruce | | | | | | | 3 | | | | | | | | | | | | 3 |
| Grass | 4 | | | | | | | | | | | | | | | | | | 4 |
| Lowlnd Brush | 40 | | | | | | | | | | | | | | | | | | 40 |
| Marsh | 12 | | | | | | | | | | | | | | | | | | 12 |
| Mx Swmp Cnfr | | | | | | | 7 | | 53 | | | | | | | | 45 | | 105 |
| Treed Bog | 7 | | | | | | | | | | | | | | | | | | 7 |
| Upland Hdwds | | | | | | | | | | | | | | | | | | 408 | 408 |
| Water | 31 | | | | | | | | | | | | | | | | | | 31 |
| Total | 94 | 76 | 104 | 108 | | 210 | 10 | | 53 | 54 | | | | | | | 45 | 408 | 1162 |

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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: 124

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 | 552 | | | | | | | | | | | | | | | | | | | | | | | | | | 552 |
| S Black Spruce | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| G Grass | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | 4 |
| L Lowlnd Brush | | | | | | | | | 40 | | | | | | | | | | | | | | | | | | 40 |
| N Marsh | | | | | | | | | | | 12 | | | | | | | | | | | | | | | | 12 |
| Q Mx Swmp Cnfr | | | | | | | | | | | | 105 | | | | | | | | | | | | | | | 105 |
| D Treed Bog | | | | | | | | | | | | | | | | | | | | | | 7 | | | | | 7 |
| M Upland Hdwds | | | | | | | | | | | | | | | | | | | | | | | | 408 | | | 408 |
| Z Water | | | | | | | | | | | | | | | | | | | | | | | | | 31 | | 31 |
| Total | 552 | 3 | | | 4 | | | | 40 | | 12 | 105 | | | | | | | | | | 7 | | 408 | 31 | 1162 | |

COPPER COUNTRY STATE FOREST

CRYSTAL FALLS FOREST MGT UNIT

IRON COUNTY

COMPARTMENT: **124**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

| COMPARTMENT SUMMARY | | | |
|--------------------------|-----------|-----------------------------|----------|
| TOTAL VOLUME | | CUT VOLUME | |
| Hardwood | 9952 Cds | Hardwood | 1019 Cds |
| Hardwood | 3458 Mbf | Hardwood | 80 Mbf |
| Softwood | 3736 Cds | Softwood | 513 Cds |
| Softwood | 104 Mbf | Softwood | 96 Mbf |
| Sum TotVol | 20812 Cds | Sum CutVol | 1884 Cds |
| Total Cmpnt Acres | | Acres Proposed For Cut..... | |
| 1162 | | 73 | |

CRYSTAL FALLS FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 124 Entry Year: 2010

| Stand | Cover Type | Acres | Age | Site Index | Mgt Obj | Condition | Method Cut | Harvest Priority | Cultural Need | FDF Status |
|---|------------|-------|-----|------------|-------------------|------------|---------------|------------------|---------------|------------|
| 1 | M6 | 17 | | 62 | northern hardwood | unevenaged | selection | 1 | | |
| comnts Fmd : there will be a follow-up regeneration cut. | | | | | | | | | | |
| 9 | A6 | 54 | 85 | 55 | aspen (upland) | mature | final harvest | 1 | | |
| comnts Fmd : There is a lot of blown down timber in this stand but it still should be harvested and get regenerate to a healthy stand again. There is a lot of conifers in this stand. Some of this stand is deer yard. | | | | | | | | | | |
| 25 | M9 | 2 | | 55 | northern hardwood | unevenaged | selection | 2 | | |

Total Acres..... 73

**Proposed Treatments
With Limiting Factors**

Compartment: 124

Entry Year: 2010

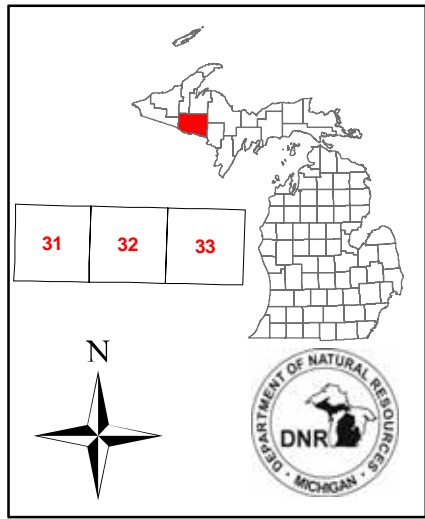
| Stand | Cover Type | Acres | Age | Site Index | Mgt Obj | Condition | Method Cut | Harvest Priority | Cultural Need | FD Status |
|--------------|-----------------------|--------------|------------|-----------------------|--------------------|------------------|-----------------------|-----------------------------|--------------------------|----------------------|
|--------------|-----------------------|--------------|------------|-----------------------|--------------------|------------------|-----------------------|-----------------------------|--------------------------|----------------------|

TREATMENT LIMITING FACTORS:

Total Acres..... 0

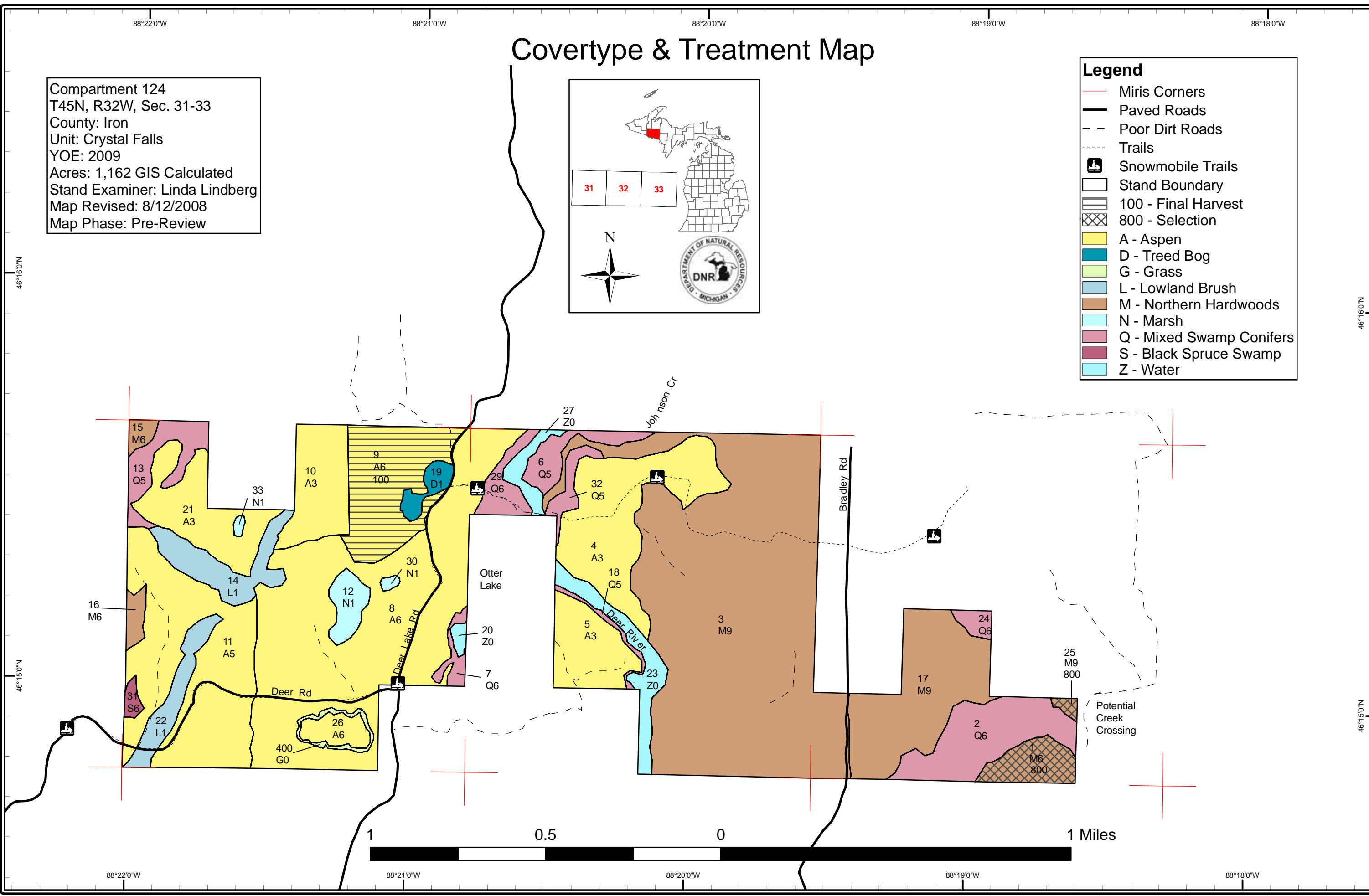
Covertypes & Treatment Map

Compartment 124
 T45N, R32W, Sec. 31-33
 County: Iron
 Unit: Crystal Falls
 YOE: 2009
 Acres: 1,162 GIS Calculated
 Stand Examiner: Linda Lindberg
 Map Revised: 8/12/2008
 Map Phase: Pre-Review



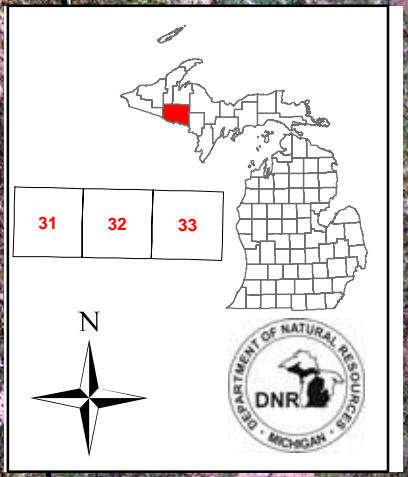
Legend

- Miris Corners
- Paved Roads
- - - Poor Dirt Roads
- - - Trails
- Snowmobile Trails
- Stand Boundary
- 100 - Final Harvest
- 800 - Selection
- A - Aspen
- D - Treed Bog
- G - Grass
- L - Lowland Brush
- M - Northern Hardwoods
- N - Marsh
- Q - Mixed Swamp Conifers
- S - Black Spruce Swamp
- Z - Water

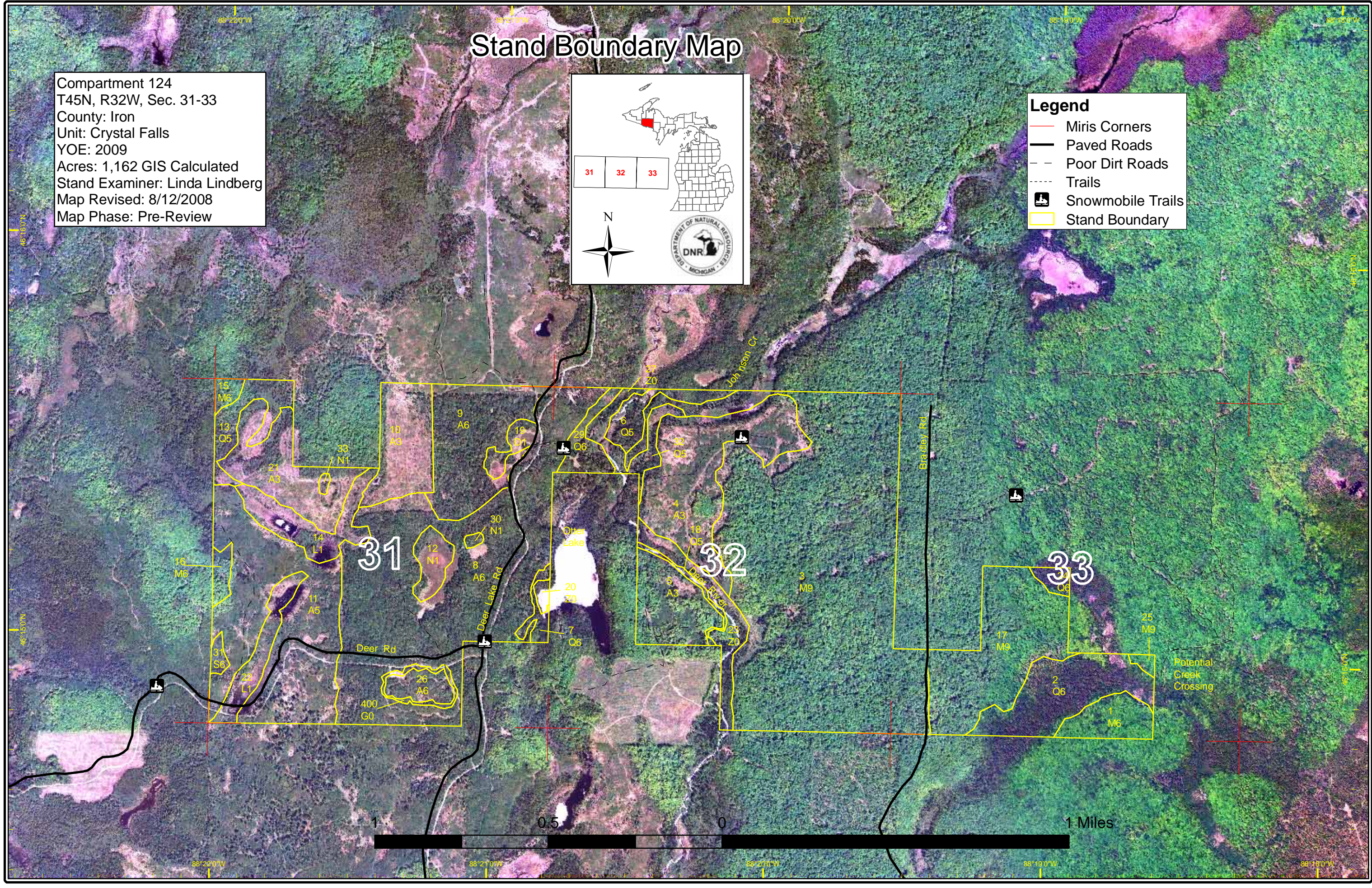


Stand Boundary Map

Compartment 124
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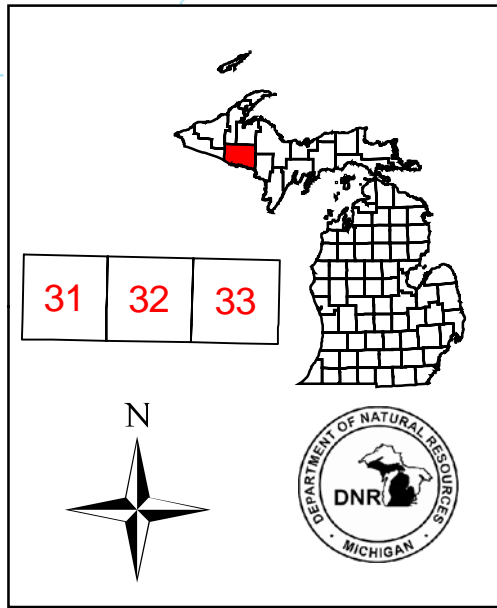


- Legend**
- Miris Corners
 - Paved Roads
 - Poor Dirt Roads
 - Trails
 - Snowmobile Trails
 - Stand Boundary



Dedicated & Proposed Special Conservation Area Map

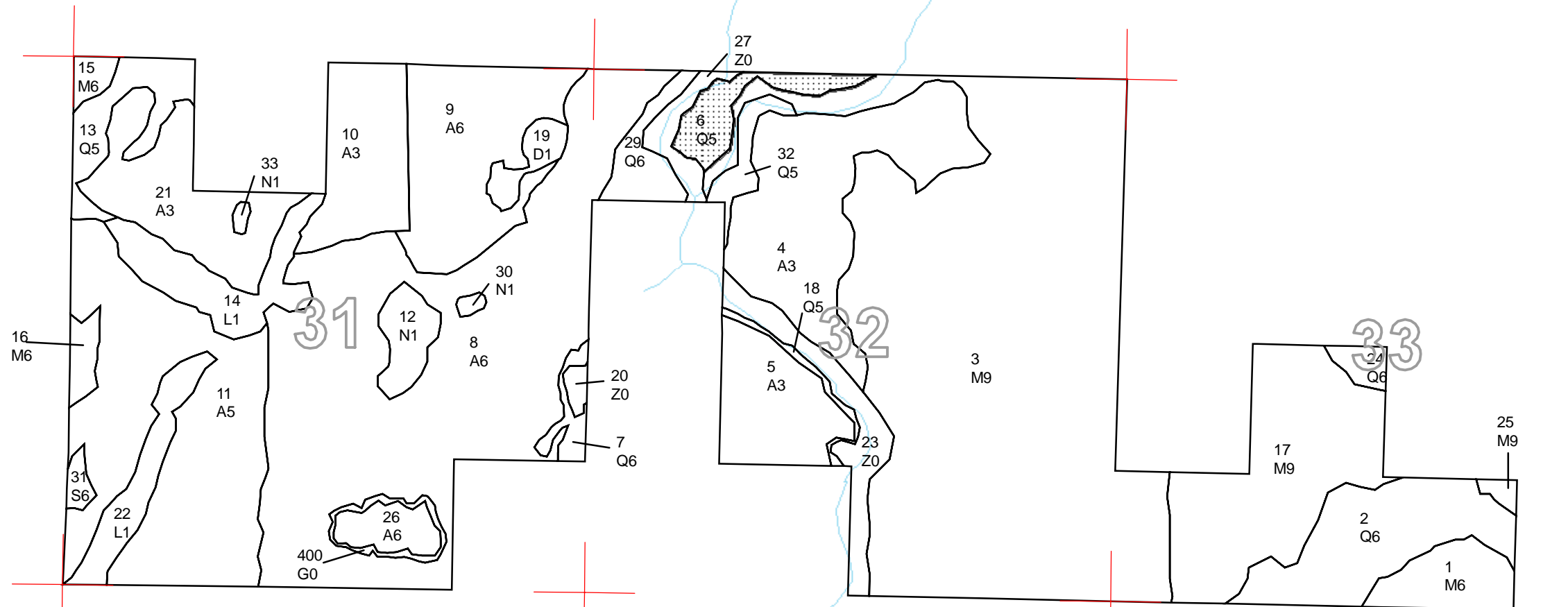
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T45N, R32W, Sec. 31-33
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Map Phase: Pre-Review



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

46°16'0"N

46°16'0"N



1 0.5 0 1 Miles

88°22'0"W

88°21'0"W

88°20'0"W

88°19'0"W

88°18'0"W

46°15'0"N



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. |