



**BARAGA FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 53 ENTRY YEAR: 2007

Compartment Acreage: 969

County: Houghton

Revision Date: October 3, 2005

Stand Examiner:

Mittlestat

Legal Description:

T52N R36W, Sections 34, and 35.

RMU (if applicable):

N/A

Management Goals:

Manage for high quality northern hardwoods. Modify marking to expand hemlock in the compartment. Emphasize recreation in the area around Emily Lake State Forest Campground.

Soil and Topography:

Soils are Munising loamy fine sand, Kalkaska sand, Halfaday sand, and Munising-Skaneec complex. Topography is level to slightly rolling. The compartment is level to rolling topography. The only steep terrain is along Bruno Creek and the depression in the north part of the compartment.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

This is part of a block of state forest land (to the east). The lands to the south, west and north are a mix of small private and forest industry. The land to the east of the campground is part of a plat. Land use is predominantly forest industry, although there are seasonal cottages and one permanent home in the surrounding area.

Unique, Natural Features (include only non-site specific and non-sensitive information):

There is a deep depression in the northwest corner of section 35.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):

None have been identified.

Special Management Designations or Considerations:**Watershed and Fisheries Considerations:**

The compartment is within the Otter River Watershed. Bruno Creek and several of its tributaries (trout streams) are within the compartment. Emily Lake and some unnamed lakes are also within the compartment. Maintain a buffer on Emily Lake, Bruno Creek and its tributaries when setting up timber sales. Meet on site with Fish Division to determine buffer width.

Wildlife Habitat Considerations:

Loons are found on Emily Lake. Hard and soft mast in this compartment supports a good bear population. Mesic conifer regeneration is not impacted by deer browsing. Retain hemlock, except for trees that need to be removed for felling and skidding paths when other tree species are cut. Feature oak where present; mark trees growing under and around oaks so as to release oak crowns and to stimulate oak reproduction.

Mineral Resource and Development Concerns and/or Restrictions:

Surface sediments consist of coarse-textured glacial till. The glacial drift thickness varies between 100 and 400 feet. The Precambrian Jacobsville Sandstone subcrops below the glacial drift. The Jacobsville was previously used as a building stone. The nearest gravel pit is located one mile to the northwest and potential appears to be good. Abandoned copper mines and crushed basalt piles are located one mile to the northwest. This area was not previously leased for metallic development. There is no economic oil and gas production in the UP.

Vehicle Access:

Access is good in the west half of the compartment (via county roads). Access east is achieved off snowmobile trail 109 (the Alston Trail) or from the road that borders the south of the compartment.

Survey Needs:

Survey corners are needed on the township line in sections 34 and 35. Corner locations of the private parcels in the Emily Lake plat need to be identified.

Recreational Facilities and Opportunities:

There is a state forest campground on Emily Lake. The campground has barrier free toilets, information station and well, but it needs a review or updated site plan. There are no other recreational facilities, and there does not appear to be any opportunity to develop additional recreational facilities. Snowmobile trail 109 is just north of the compartment boundary.

Fire Protection:

This is not a fire prone area.

Additional Compartment Information:

Inventory was done with IFMAP.

- **Cover Type details and proposed treatments are listed in the attached reports:**
 - ◆ **Cover Type by Age Class**
 - ◆ **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**



Stage 1 Acres Summary By Level 3 Cover Type By Age												
Compartment: 11053												
Date: 10/19/2005												

	0	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	>89	Uneven Age	Grand Total
Emergent Wetland	13.7	0	0	0	0	0	0	0	0	0	0	0	13.7
Lowland Coniferous Forest	0	0	0	0	0	0	0	7.6	0	4.4	26.7	0	38.7
Lowland Deciduous Forest	0	0	0	0	0	0	0	0	0	0	0	31.4	31.4
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	16.8	16.8
Lowland Shrub	43.8	0	0	0	0	0	0	0	0	0	0	0	43.8
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	767.4	767.4
Road/Parking Lot	2.4	0	0	0	0	0	0	0	0	0	0	0	2.4
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	5.5	5.5
Water	59.1	0	0	0	0	0	0	0	0	0	0	0	59.1
Grand Total	119	0	0	0	0	0	0	7.6	0	4.4	26.7	821.1	978.8

**PROPOSED TREATMENTS
NO LIMITING FACTORS**

Stand Nbr(s)	Treatment Name	Acres	Stage1 CovType	Size Density	Treatment Method	Treatment Purpose	Cover Type Objective	Follow Up Activities After Treatment	Pg. 1
8	11053007_aoi-cmpg buffer	10.0	Maple, Beech, Cherry Association	9	Single Tree Selection	Other - Specify	Maple, Beech, Cherry Association		
<u>Rev</u>	Visual buffer around campground. Will remove hazard trees and open the area up some to improve air movement. W Pine and Oak will be favored								
<u>Spec:</u>	along with large diameter hemlock. Harvest activities will be conducted in the winter and regeneration protection spec will be included in the tsale contract.								
<u>Rev</u>									
<u>Cmnt:</u>									
8	11053007_aoi-Cut	77.5	Maple, Beech, Cherry Association	9	Single Tree Selection	Regeneration	Maple, Beech, Cherry Association		
<u>Rev</u>	Thin to 85, down to 100 when more than 30 sqft of hemlock is present. Favor Oak, hemlock and white pine.								
<u>Spec:</u>	--Jason Mittlestat : 09/26/2005 comments: Smaller area of some more hemlock was merged back in on 9/26/05. Had a in the field meeting with wildlife staff and they requested we notify them when we will be marking in this area - wildlife suggested they have a staff person in the field with FMFM staff.								
<u>Rev</u>									
<u>Cmnt:</u>									
7	11053007-Campground	4.9	Y.Birch, Hemlock NH	8	Single Tree Selection	Other - Specify	Y.Birch, Hemlock NH		
<u>Rev</u>	Hazard tree removal in campground - visual management. Will be harvested in winter. Will be marked by FMFM staff.								
<u>Spec:</u>									
<u>Rev</u>									
<u>Cmnt:</u>									
11	11053011_aoi-Cut	12.0	Maple, Beech, Cherry Association	6	Single Tree Selection	Regeneration	Maple, Beech, Cherry Association		
<u>Rev</u>	Thin to 85. mark to 100 when more than 30 sq ft of hemlock is present. favor W. Pine. Favor Oak								
<u>Spec:</u>									
<u>Rev</u>									
<u>Cmnt:</u>									
11	11053011_aoi-Pole Stand	7.1	Maple, Beech, Cherry Association	6	Single Tree Selection	Intermediate Cut	Maple, Beech, Cherry Association		
<u>Rev</u>	Pole sized hardwood patch - thin to 85 by removing defect. Favor any W Pine and Oak - preserve hemlock								
<u>Spec:</u>									
<u>Rev</u>									
<u>Cmnt:</u>									
20	11053020_aoi-Cut	178.0	Maple, Beech, Cherry Association	9	Single Tree Selection	Regeneration	Maple, Beech, Cherry Association		
<u>Rev</u>	Thin to 85. Favor oak. Mark to 100 sq ft when 30 sq ft of hemlock is present. Favor W Pine when present.								
<u>Spec:</u>									
<u>Rev</u>									
<u>Cmnt:</u>									
25	11053040_aoi-Cut	11.7	Maple, Beech, Cherry Association	6	Single Tree Selection	Regeneration	Maple, Beech, Cherry Association		
<u>Rev</u>	Thin to 85 by removing poor quality. Mark to 100 BA when more than 30 BA of hemlock is present. Thinned 20 yrs ago....thin again.... take out poor quality stems.								
<u>Spec:</u>									
<u>Rev</u>	Possible trespass along N line by Kew Land so treatment acres will be less than indicated.								
<u>Cmnt:</u>									

**PROPOSED TREATMENTS
NO LIMITING FACTORS**

Stand Nbr(s)	Treatment Name	Acres	Stage1 CovType	Size Density	Treatment Method	Treatment Purpose	Cover Type Objective	Follow Up Activities After Treatment	Pg. 2
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Total Treatment
Acreage Proposed: 301.4

**PROPOSED TREATMENTS
WITH LIMITING FACTORS**

Stand Nbr(s)	Treatment Name	Acres	Stage1 CovType	Size Density	Treatment Method	Treatment Purpose	Cover Type Objective	Follow Up Activities After Treatment	Pg. 1
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Limiting Factor
and Comment:

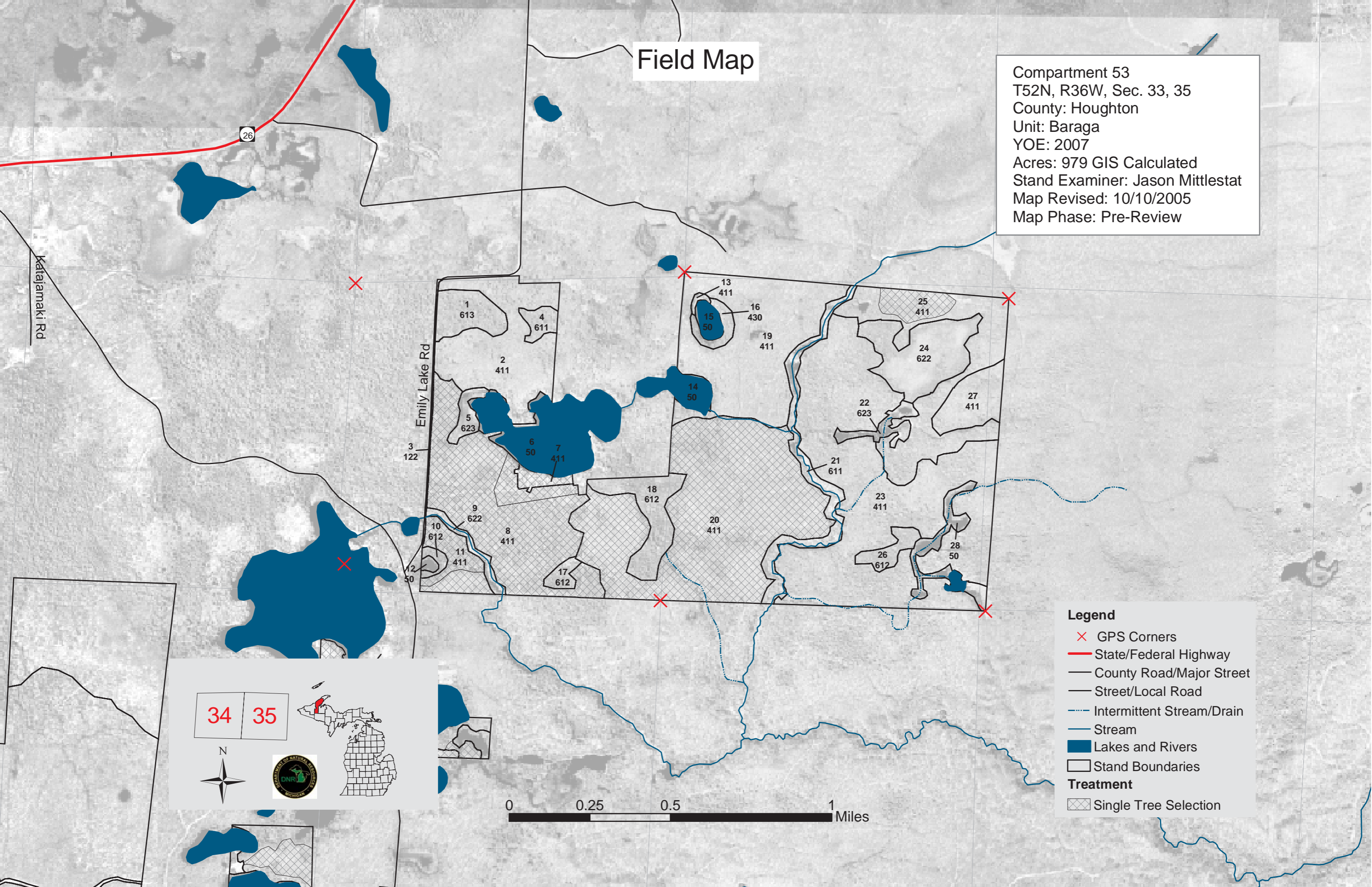
Rev
Spec:

Rev
Cmnt:

**Total Treatment
Acreage Proposed: 0**

Field Map

Compartment 53
T52N, R36W, Sec. 33, 35
County: Houghton
Unit: Baraga
YOE: 2007
Acres: 979 GIS Calculated
Stand Examiner: Jason Mittlstat
Map Revised: 10/10/2005
Map Phase: Pre-Review



Legend

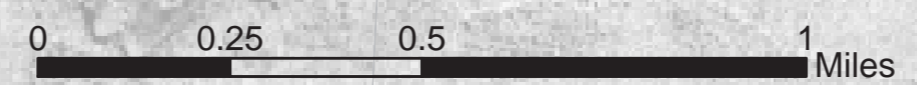
- ✕ GPS Corners
- State/Federal Highway
- County Road/Major Street
- Street/Local Road
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- Stand Boundaries

Treatment

- ▨ Single Tree Selection

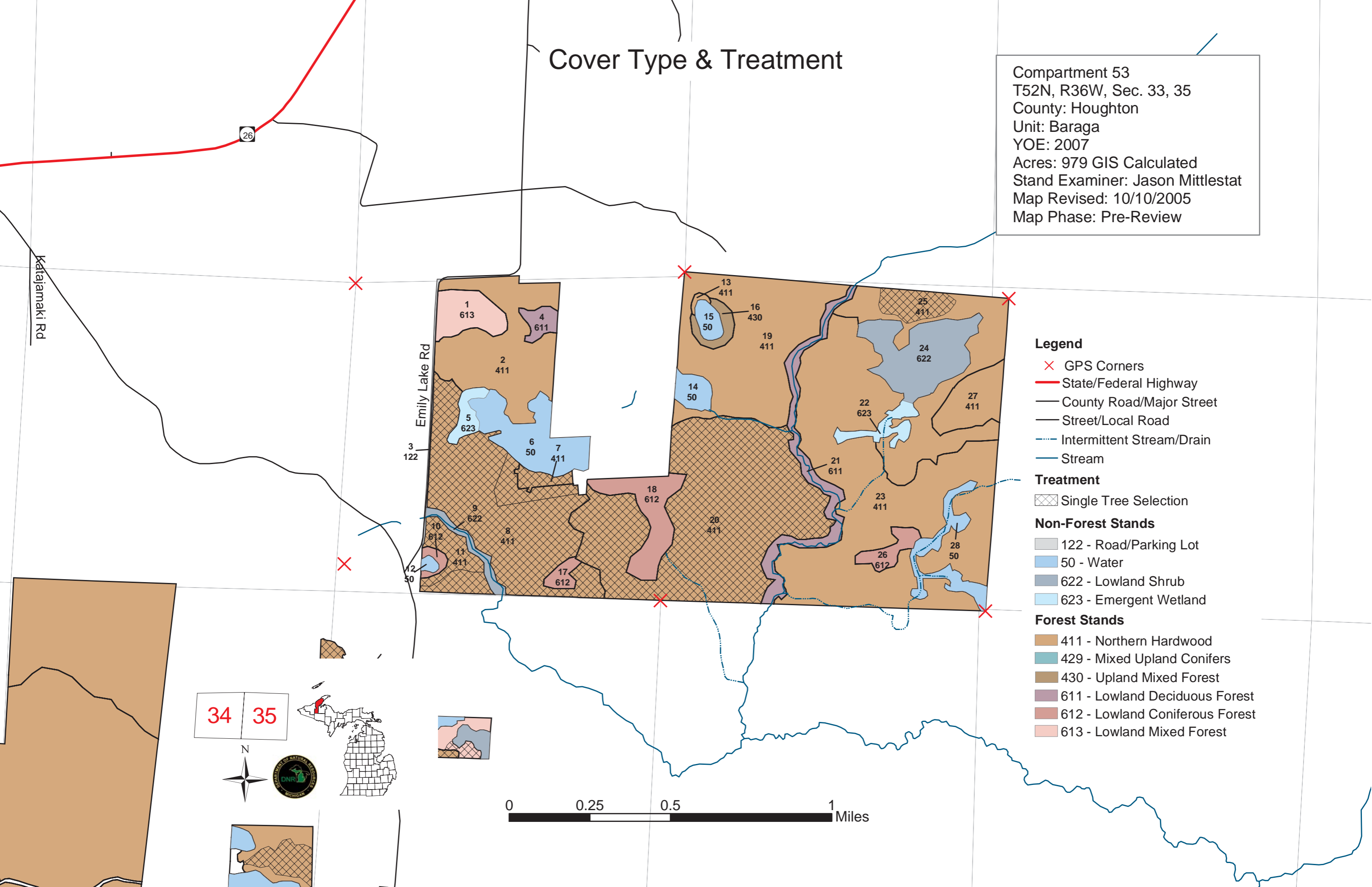
34 35

The inset map shows the state of Michigan with a red box highlighting the location of the compartment in the western part of the state. Below the inset map is the logo of the Michigan Department of Natural Resources (DNR).



Cover Type & Treatment

Compartment 53
 T52N, R36W, Sec. 33, 35
 County: Houghton
 Unit: Baraga
 YOE: 2007
 Acres: 979 GIS Calculated
 Stand Examiner: Jason Middlestat
 Map Revised: 10/10/2005
 Map Phase: Pre-Review



Legend

- ✕ GPS Corners
- State/Federal Highway
- County Road/Major Street
- Street/Local Road
- ⋯ Intermittent Stream/Drain
- Stream

Treatment

- ▨ Single Tree Selection

Non-Forest Stands

- 122 - Road/Parking Lot
- 50 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

Forest Stands

- 411 - Northern Hardwood
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

34 35

