



**Crystal Falls FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT 102 ENTRY YEAR 2008
Compartment Acreage: 1596 County: Dickinson**

Revision Date: 9/19/2006

Stand Examiner: Cynthia Cooper

Legal Description: T40N R30W sections 3,4, & 10

Management Goals: To maintain aspen and improve red oak and pine components.

Soil and Topography: Soils are fine sand to sandy loam. Topography -rolling hills to wet lowlands.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Mostly contiguous state forest with minor private ownership.

Unique, Natural Features: Pine Creek, Harding Creek, Rock Dam Falls.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

MINERAL, OIL AND GAS CONSIDERATIONS:

Compartment 102: Sections 3, 4 & 10, T40N-R30W, Dickinson County

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 50 and 100 feet. The Precambrian Michigamme and Choccolay Formations outcrop beneath the glacial drift. There is not a current economic use for these rocks. Abandoned Iron Mountain iron mines are located two miles to the south. Part of this compartment was previously leased for metallic exploration, but potential may be limited. A pit is located in Section 5 and there may be some potential. There is no economic oil and gas production in the UP.

Vehicle Access: Good by 2 wheel drive, very good by 4 wheel drive. Much access is through private.

Survey Needs: Two corners needed along private in east side of section 3.

Recreational Facilities and Opportunities: Hunting and fishing, scenic views.

Fire Protection:

Additional Compartment Information:

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: 12102

Date: 10/9/2006

	0	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	>89	Uneven Age	Grand Total
Aspen Types	0	118.2	242.6	122.4	121.4	15.4	0	47.7	118.2	0	0	0	785.9
Herbaceous Openland	49.7	0	0	0	0	0	0	0	0	0	0	0	49.7
Lowland Coniferous Forest	0	0	0	0	0	0	6.3	20.2	18.5	22.5	0	0	67.5
Lowland Deciduous Forest	0	0	0	0	33.4	0	0	0	0	0	0	0	33.4
Lowland Shrub	61.6	0	0	0	0	0	0	0	0	0	0	0	61.6
Mixed Upland Conifers	0	0	0	40.4	0	0	0	0	0	0	0	0	40.4
Mixed Upland Deciduous	0	0	0	8	0	0	0	231.4	0	0	0	0	239.4
Natural Pines	0	0	0	0	0	0	16	33.2	38.9	0	0	0	88.1
Northern Hardwood	0	0	0	0	72.6	0	0	0	0	0	0	0	72.6
Oak Types	0	0	0	0	0	0	0	54.8	0	0	0	0	54.8
Other Upland Deciduous	0	0	0	0	0	0	14.4	53.2	0	0	0	0	67.6
Planted Pines	0	0	0	0	0	14	21.1	0	0	0	0	0	35.1
Grand Total	111.3	118.2	242.6	170.8	227.4	29.4	57.8	440.5	175.6	22.5	0	0	1596.1

**PROPOSED TREATMENTS
NO LIMITING FACTORS**

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Treatment Name	Acres	Stage1 CovType	Size Density	1st Age	2nd Age	Treatment Method	Treatment Purpose	Cover Type Objective	Follow Up Activities After Treatment	Pg. 1
8 12102008-Cut1	14.4	Other Upland Deciduous	6	50	0	Clearcut with Reserves	Regeneration	Birch, Aspen	Regeneration survey 5 years after harvest completed.	
<u>Rev</u>	Cut all trees 2" and greater at breast height except cut no oak or softwoods.									
<u>Spec:</u>										
<u>Rev</u>	Stand has more aspen than stage one cruise indicates. This stand will regenerate to aspen with an oak component.									
<u>Cmnt:</u>										
11 12102011-Cut	28.7	Other Mixed Upland Deciduous	6	65	0	Clearcut with Reserves	Regeneration	Other Mixed Upland Deciduous	Check stand for regeneration 5 years after harvest.	
<u>Rev</u>	Cut all trees 2" and greater at breast height except cut no oak or softwoods.									
<u>Spec:</u>										
<u>Rev</u>	This stand is expected to regenerate aspen with an oak component.									
<u>Cmnt:</u>										
17 12102017-Cut	53.2	Other Upland Deciduous	6	60	55	Clearcut with Reserves	Regeneration	Other Mixed Upland Deciduous	regeneration survey 5 years after harvest.	
<u>Rev</u>	Cut all trees 2" and greater at breast height except cut no oak or softwoods.									
<u>Spec:</u>										
<u>Rev</u>	This stand is expected to regenerate to aspen.									
<u>Cmnt:</u>										
22 12102022-Cut	23.6	Aspen	6	79	57	Clearcut with Reserves	Regeneration	Aspen	Regeneration survey 5 years after harvest.	
<u>Rev</u>	Cut all trees 2" and greater at breast height except cut no oak or softwoods									
<u>Spec:</u>										
<u>Rev</u>	Stand will regenerate to aspen with apine component.									
<u>Cmnt:</u>										
30 12102030-Cut	63.8	Aspen	9	79	45	Clearcut with Reserves	Regeneration	Aspen	regeneration survey 5 years after harvest completed.	
<u>Rev</u>	Cut all trees greater than 2" at breast height except cut no softwoods or cherry.									
<u>Spec:</u>										
<u>Rev</u>										
<u>Cmnt:</u>										
31 12102031-Cut	14.0	Planted Red Pine	6	41	0	Single Tree Selection	Release	Planted Red Pine		
<u>Rev</u>	Mark select trees.									
<u>Spec:</u>										
<u>Rev</u>	Stand row thinned in 1997 but meets basal area requirements for thinning. Mark selectively to release pine..									
<u>Cmnt:</u>										
40 12102040-Cut	47.7	Aspen	6	65	0	Clearcut with Reserves	Regeneration	Aspen	Regeneration survey 5 years after harvest complete.	
<u>Rev</u>	Cut all trees 2" and greater at breast height except cut no oak or cherry if present and cut no softwoods.									
<u>Spec:</u>										
<u>Rev</u>	Will need to exclude some wet areas bordering the buffer along pine creek.									
<u>Cmnt:</u>										

**Total Treatment
Acreage Proposed: 245.5**

**PROPOSED TREATMENTS
WITH LIMITING FACTORS**S
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dTreatment
Name

Acres

Stage1
CovTypeSize
Density1st
Age2nd
AgeTreatment
MethodTreatment
PurposeCover Type
ObjectiveFollow Up Activities
After Treatment

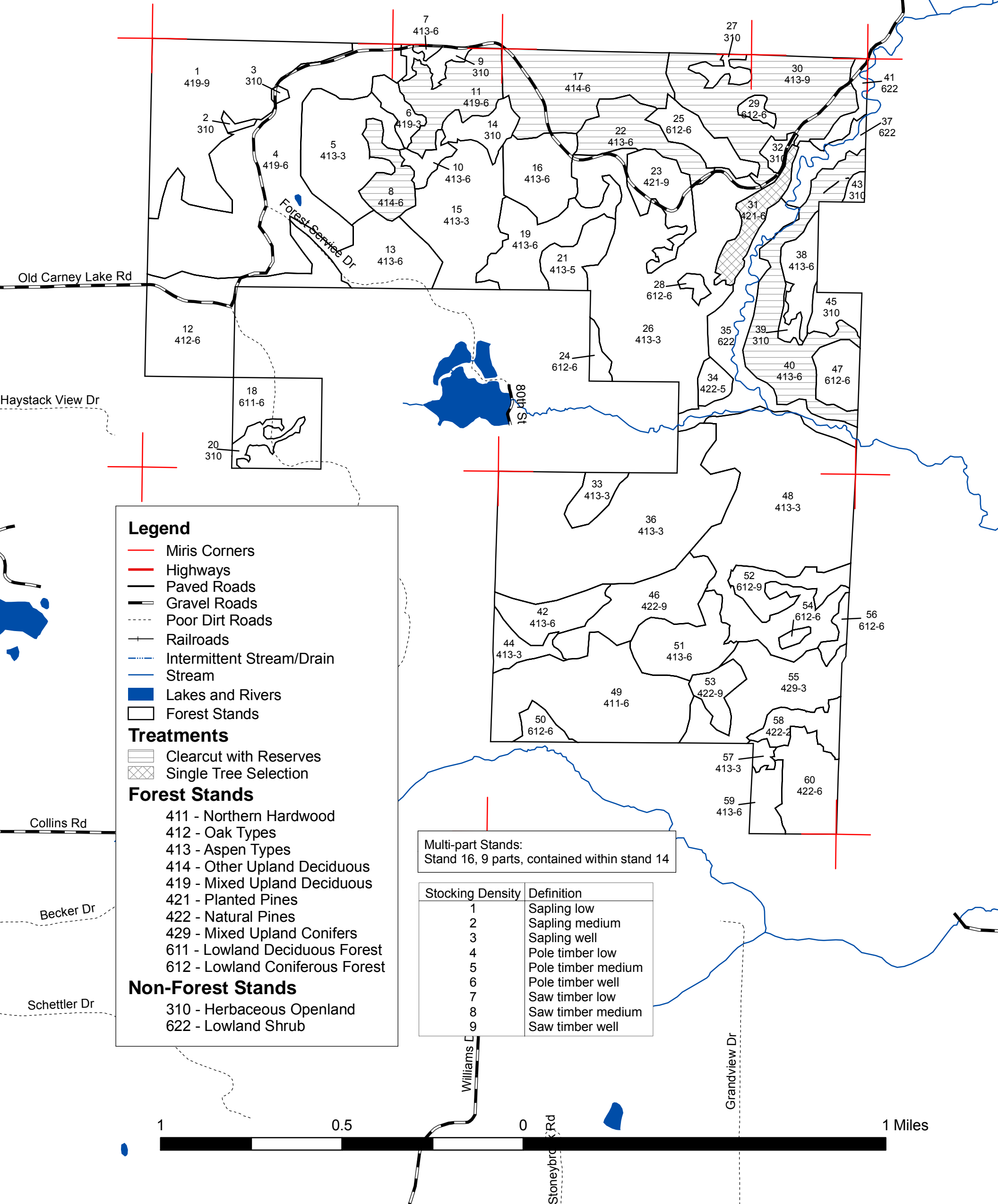
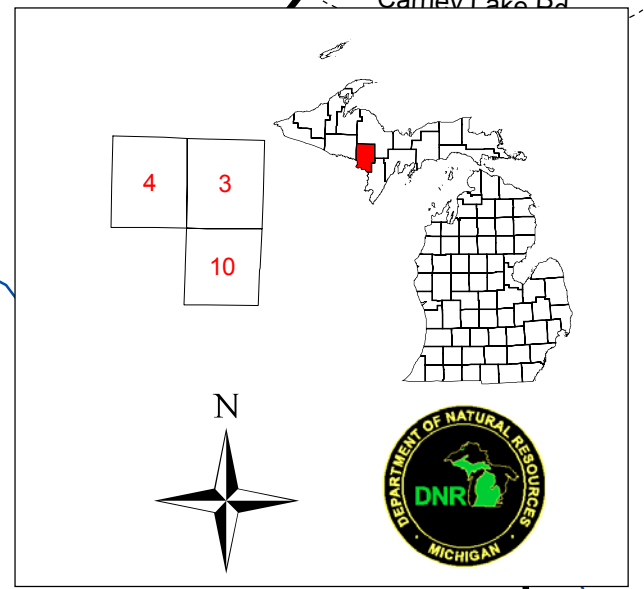
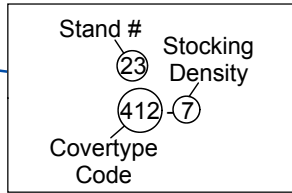
Pg. 1

Limiting Factor
and Comment:Rev
Spec:Rev
Cmnt:

**Total Treatment
Acreage Proposed: 0**

Field Map

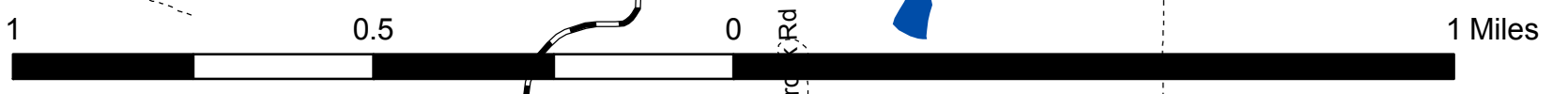
Compartment 102
 T40N, R30W, Sec. 3, 4, 10
 County: Dickinson
 Unit: Crystal Falls
 YOE: 2008
 Acres: 1,596 GIS Calculated
 Stand Examiner: Cynthia Cooper
 Map Revised: 10/6/2006
 Map Phase: Pre-review



- Legend**
- Miris Corners
 - Highways
 - Paved Roads
 - Gravel Roads
 - Poor Dirt Roads
 - Railroads
 - Intermittent Stream/Drain
 - Stream
 - Lakes and Rivers
 - Forest Stands
- Treatments**
- ▨ Clearcut with Reserves
 - ▩ Single Tree Selection
- Forest Stands**
- 411 - Northern Hardwood
 - 412 - Oak Types
 - 413 - Aspen Types
 - 414 - Other Upland Deciduous
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 429 - Mixed Upland Conifers
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- 310 - Herbaceous Openland
 - 622 - Lowland Shrub

Multi-part Stands:
Stand 16, 9 parts, contained within stand 14

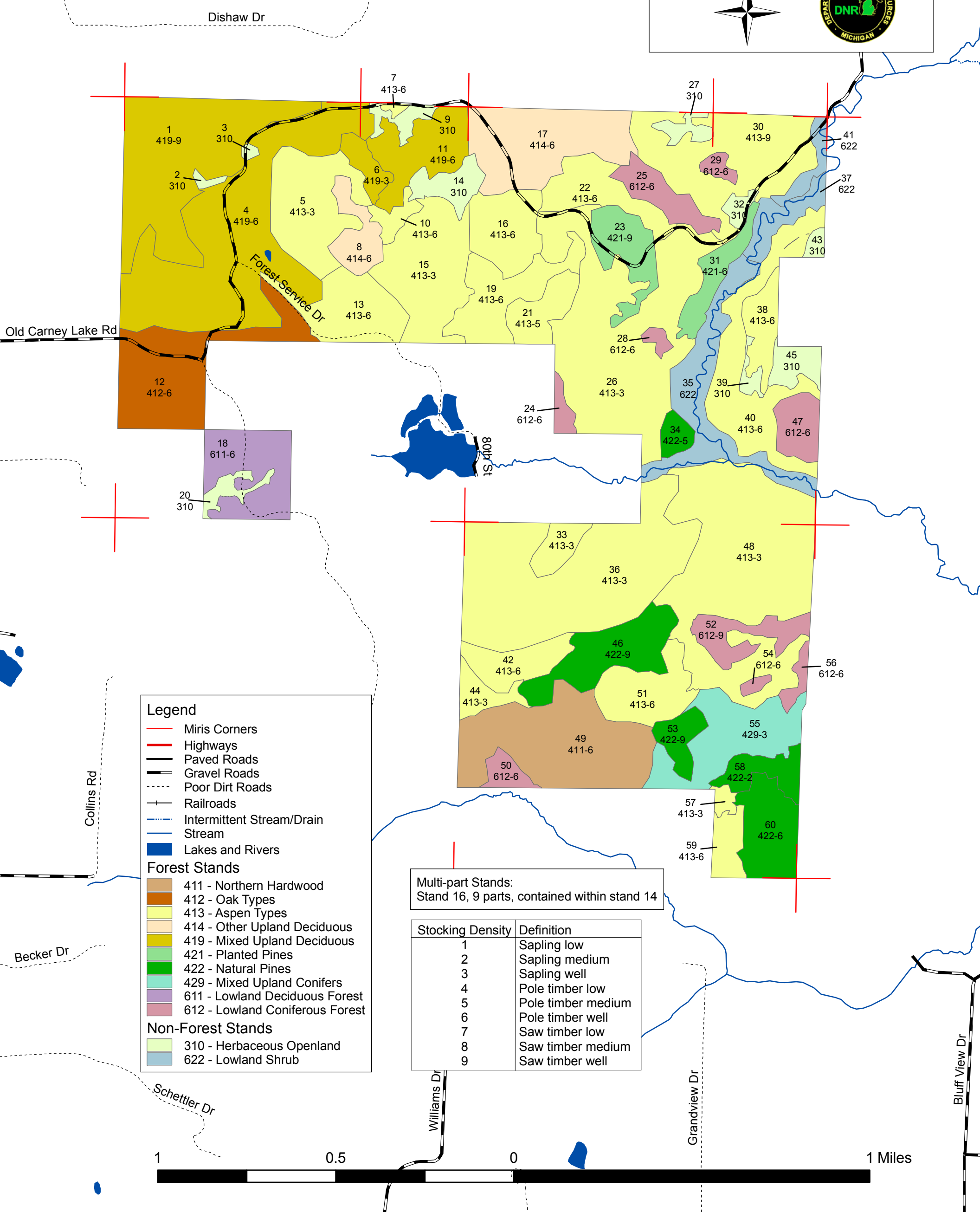
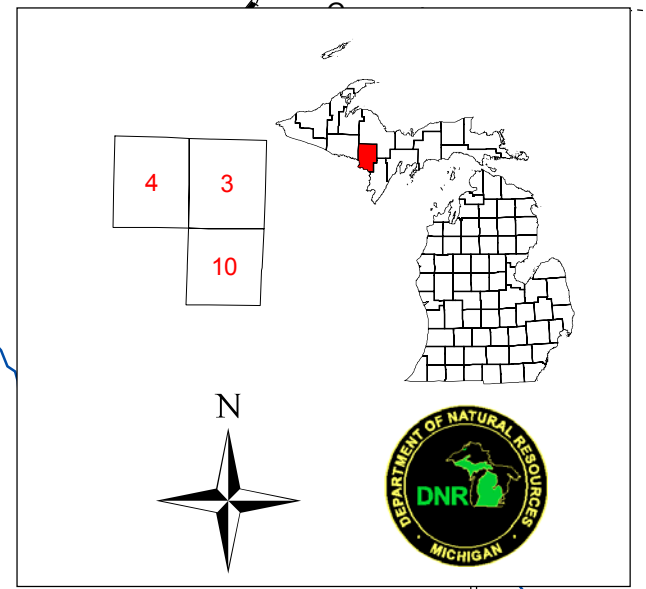
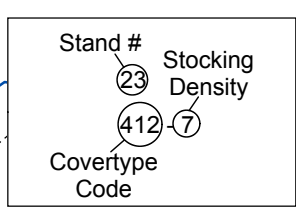
Stocking Density	Definition
1	Sapling low
2	Sapling medium
3	Sapling well
4	Pole timber low
5	Pole timber medium
6	Pole timber well
7	Saw timber low
8	Saw timber medium
9	Saw timber well



Peter Bay Dr

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Cover Type



Legend

- Miris Corners
- Highways
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
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- Lakes and Rivers

Forest Stands

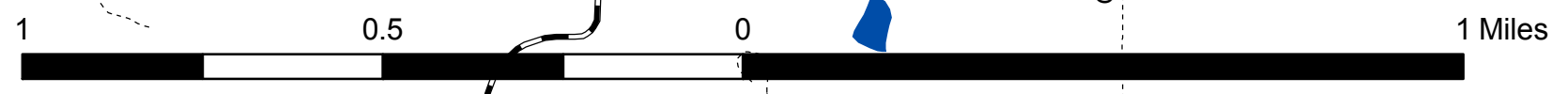
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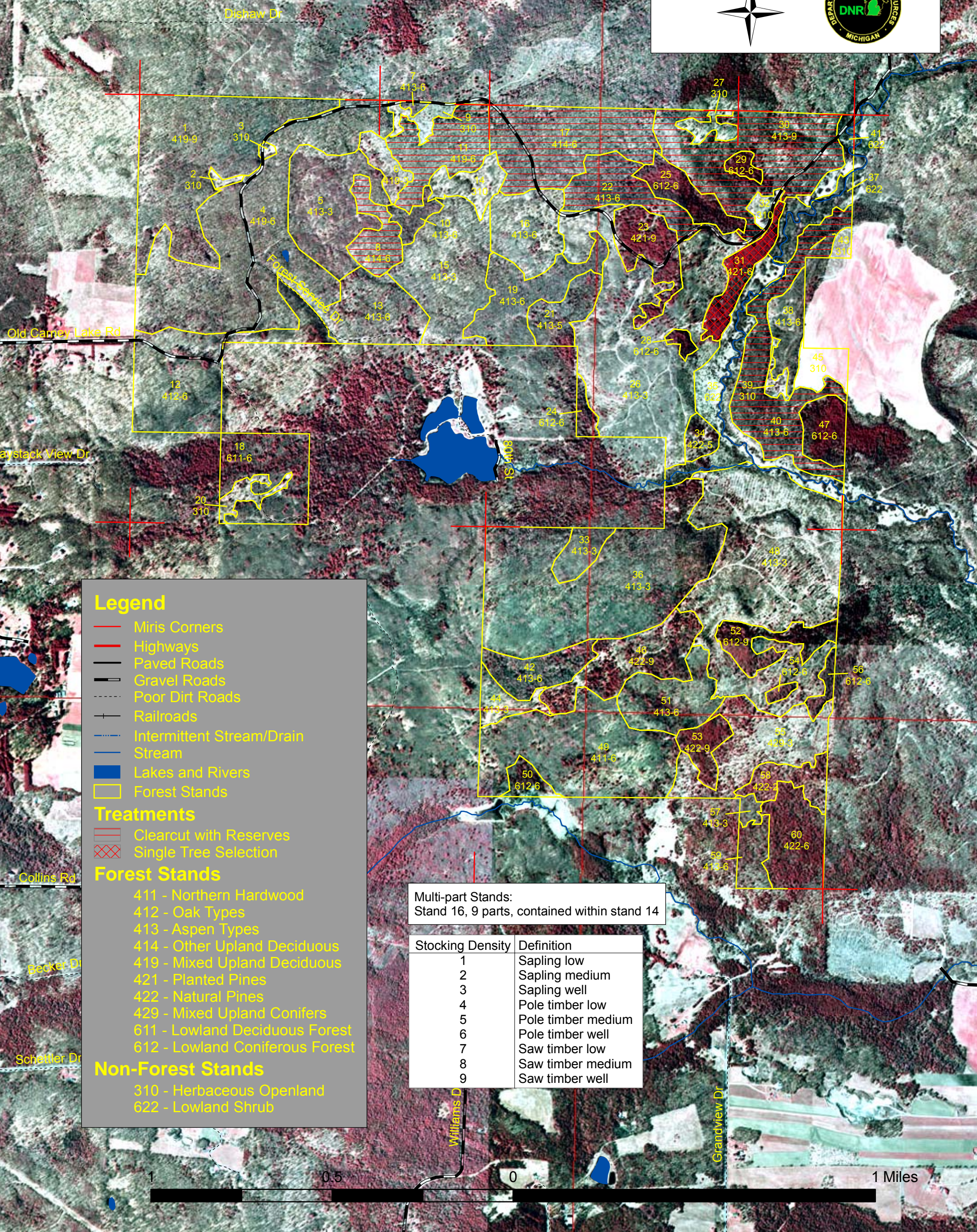
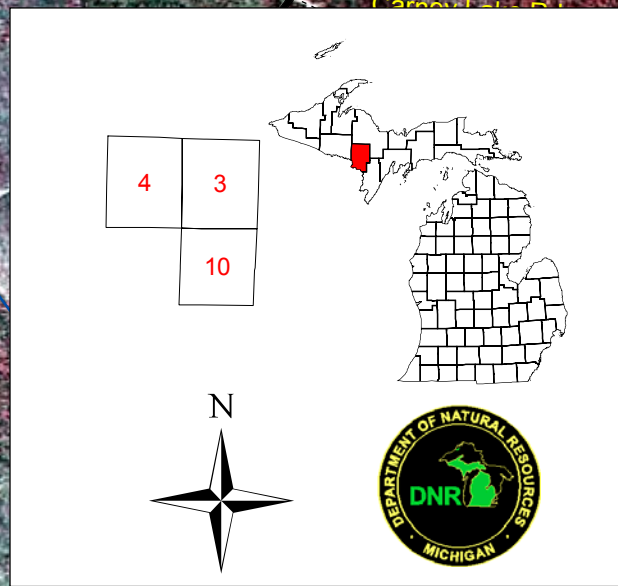
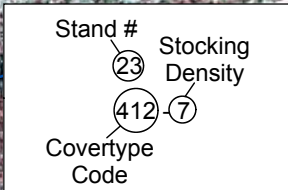
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 Stand 16, 9 parts, contained within stand 14

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