



**Baraga Forest Management Unit
Compartment Review Presentation**

Compartment #69 Entry Year: 2011
Compartment Acreage: 1528 County: Ontonagon

Revision Date: 7/15/2009

Stand Examiner: Fred Hansen

Legal Description: Ontonagon Township
T53N, R38W, Sections 14, 15, 22, 23 and 27.

RMU (if applicable):

Management Goals:

To maintain a healthy sustainable forest with special consideration to wildlife and fisheries habitat.

Soil and Topography:

The land is fairly level with valleys where the streams are located. Soils are Watton and Ontonagon clays, Kalkaska sand, Munising loamy sand, Tawas muck, Rubicon and Roselong sands.

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

The majority of the adjacent lands are managed for timber. The private ownership is predominantly industrial forest. There are small private parcels with hunting camps scattered throughout this area. Access is poor, and is limited to a network of poor dirt roads across private lands to the South.

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

MNFI recognizes the numerous eagle records within compartment and in vicinity. Potential for osprey, eagle, great blue heron rookery, merlin, red-shouldered hawk, goshawk, moose, and gray wolf. Potential for wood turtle along drainage. Potential for showy orchids, climbing fumitory, goblin fern, male fern, large toothwort, ginseng, and northern marsh violet in mature hardwoods. Potential for veiny meadow-rue, narrow-leaved gentian, and Farwell's water-milfoil in drainages.

Archeological, Historical, and Cultural Features:

There are some identified Indian burial sites in the compartment.

Special Management Designations or Considerations:

BMP guidelines should be followed around the intermittent streams.

Watershed and Fisheries Considerations:

West Sleeping River, East Sleeping River, Holland Creek and Lake Superior are in or adjacent to this compartment.

Wildlife Habitat Considerations:

Favor mesic conifers; White Pine and Hemlock, as well Northern Red Oak. This compartment is known to contain a historical deeryard.

Mineral Resource and Development Concerns and/or Restrictions:

None.

Vehicle Access:

Access is a major problem due to soil and water issues. Access is through a network of forest roads that connect from all directions across private ownership. Most of these roads are seasonally passable.

Survey Needs:

Some survey work in sections 15 and 22 will need to be done for harvest activities.

Recreational Facilities and Opportunities:

This area is popular for all types of hunting, there are also some stream fishing opportunities. The area receives some back country snowmobile and ORV use.

Fire Protection:

This is not a fire prone area.

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**

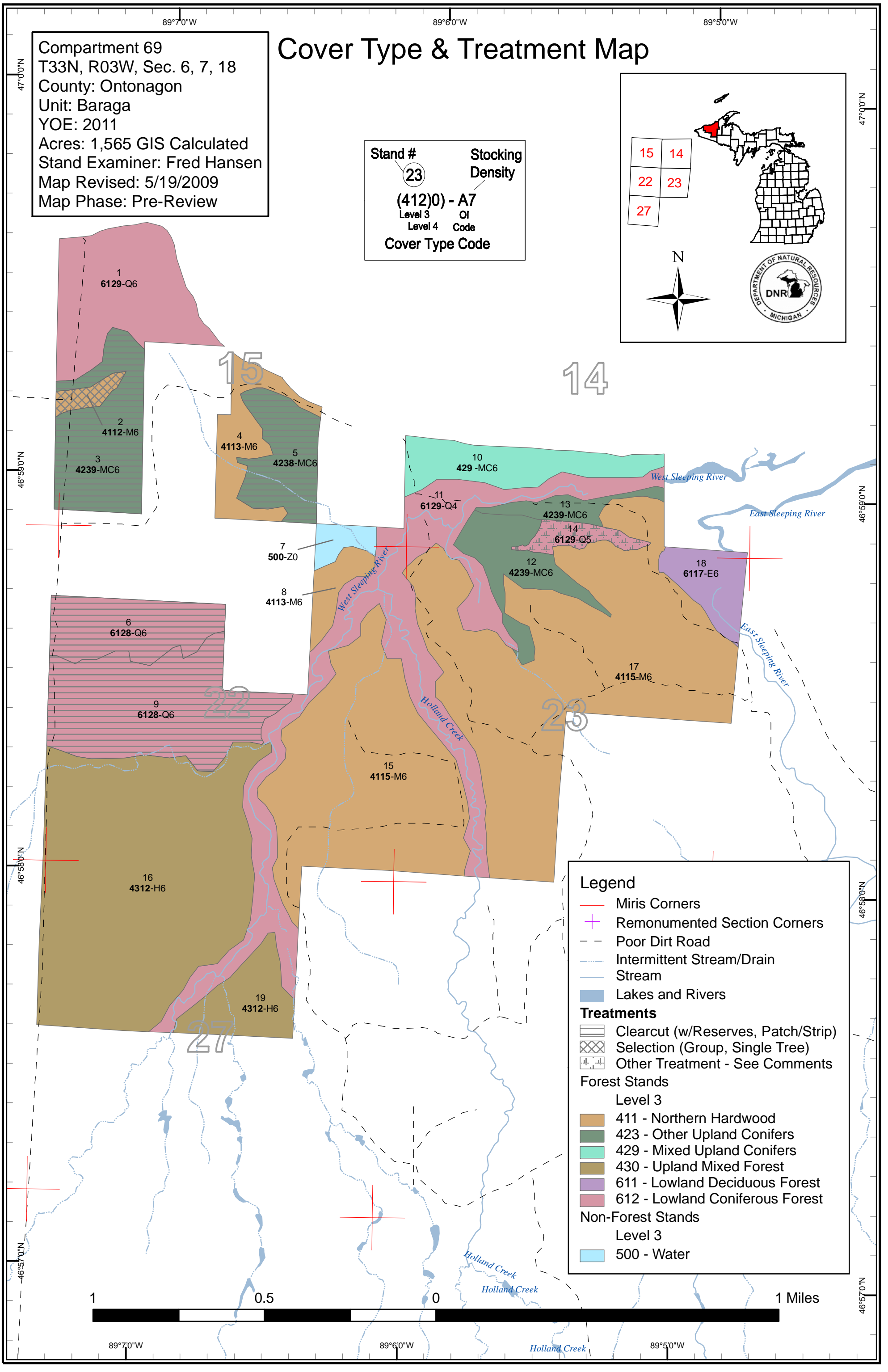
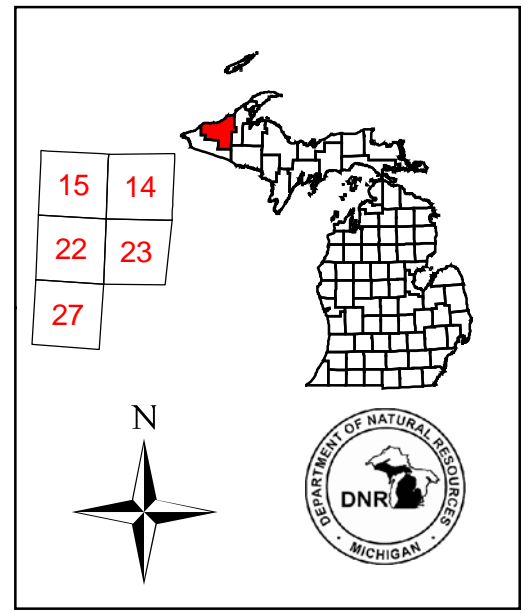
➤ **The following information is displayed, where pertinent, on the attached compartment maps:**

- ◆ **Base feature information, stand numbers, cover types**
- ◆ **Proposed treatments**
- ◆ **Proposed road access system**
- ◆ **Suggested potential old growth**

Compartment 69
 T33N, R03W, Sec. 6, 7, 18
 County: Ontonagon
 Unit: Baraga
 YOE: 2011
 Acres: 1,565 GIS Calculated
 Stand Examiner: Fred Hansen
 Map Revised: 5/19/2009
 Map Phase: Pre-Review

Cover Type & Treatment Map

Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



Legend

- Miris Corners
- Remonumented Section Corners
- Poor Dirt Road
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Selection (Group, Single Tree)
- Other Treatment - See Comments

Forest Stands

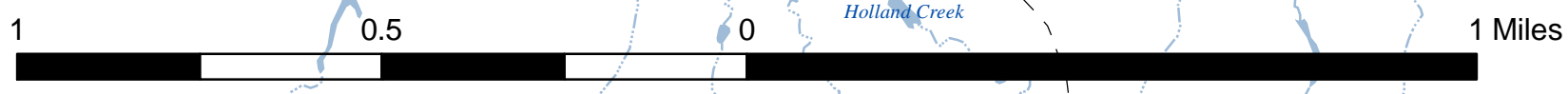
Level 3

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

Non-Forest Stands

Level 3

- 500 - Water



89°70'W 89°60'W 89°50'W

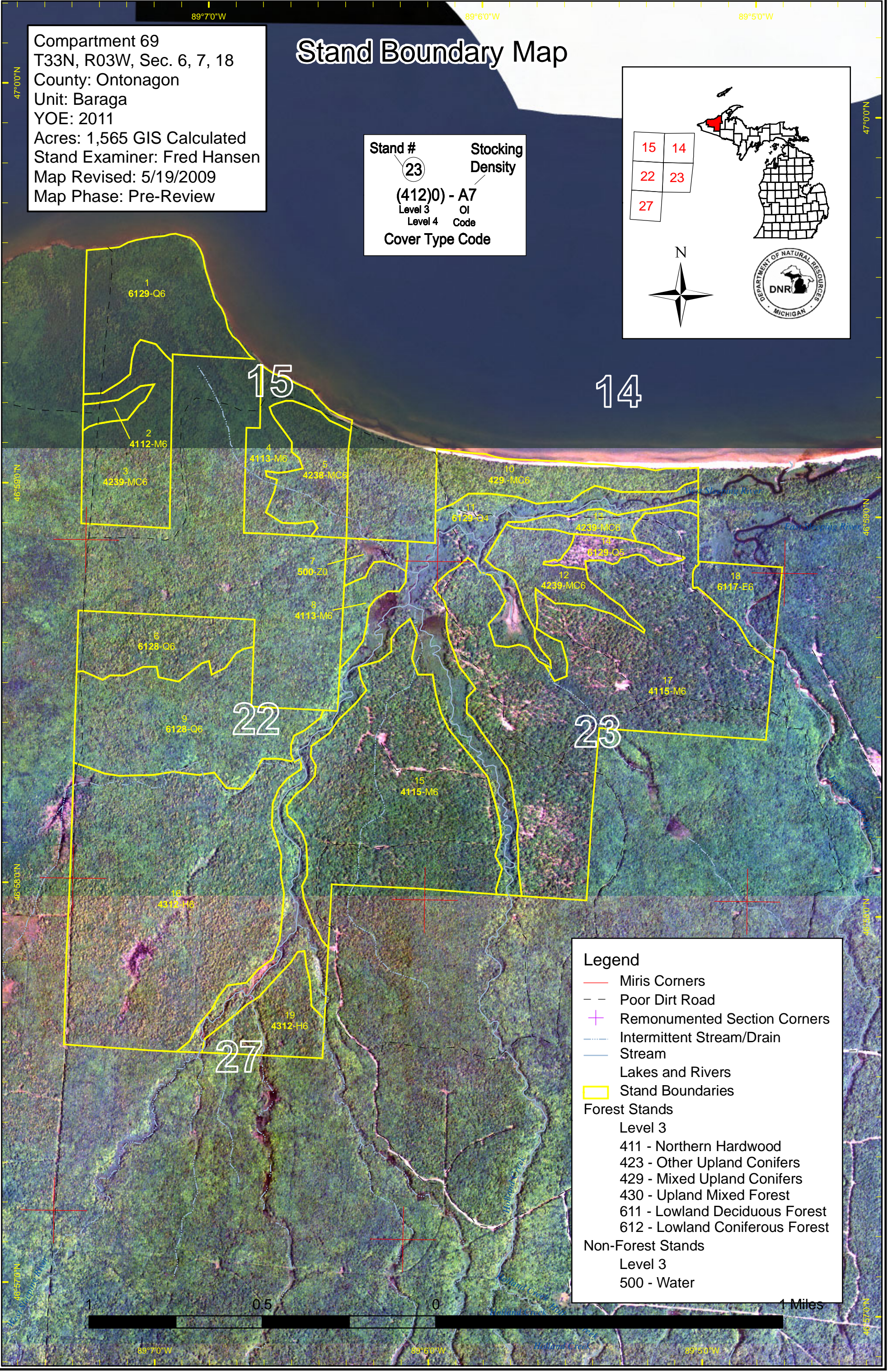
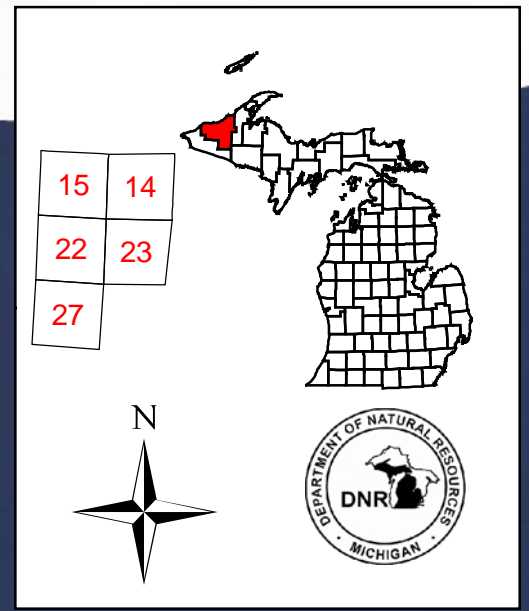
47°00'N
46°59'0"N
46°58'0"N
46°57'0"N

47°00'N
46°59'0"N
46°58'0"N
46°57'0"N

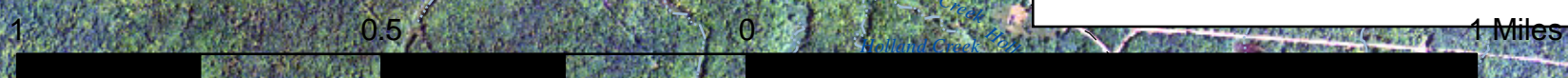
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Stand Boundary Map

Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



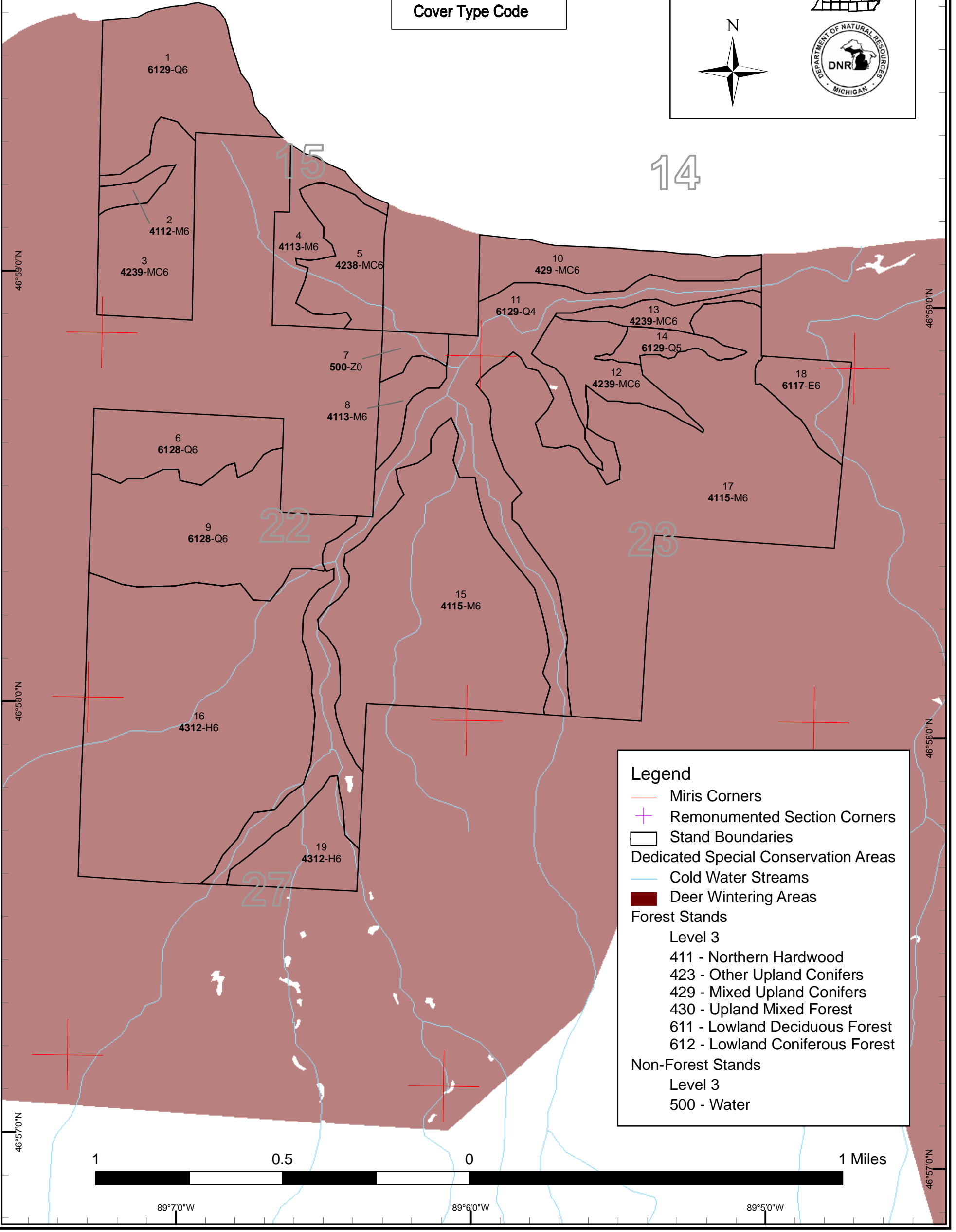
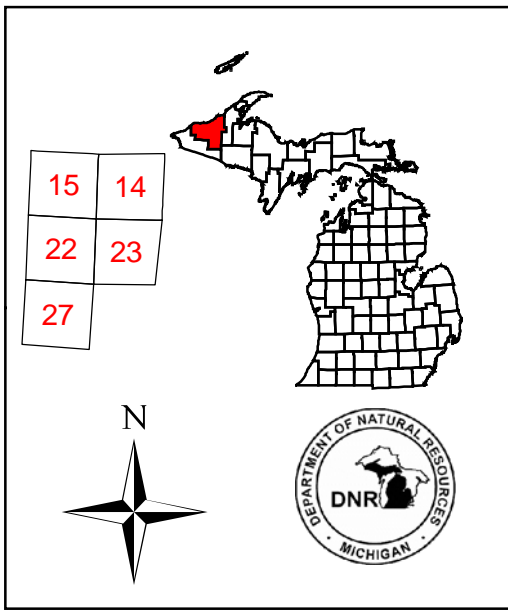
- Legend**
- Miris Corners
 - - - Poor Dirt Road
 - + Remonumented Section Corners
 - Intermittent Stream/Drain
 - Stream
 - Lakes and Rivers
 - Stand Boundaries
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 423 - Other Upland Conifers
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- Non-Forest Stands**
- Level 3
- 500 - Water



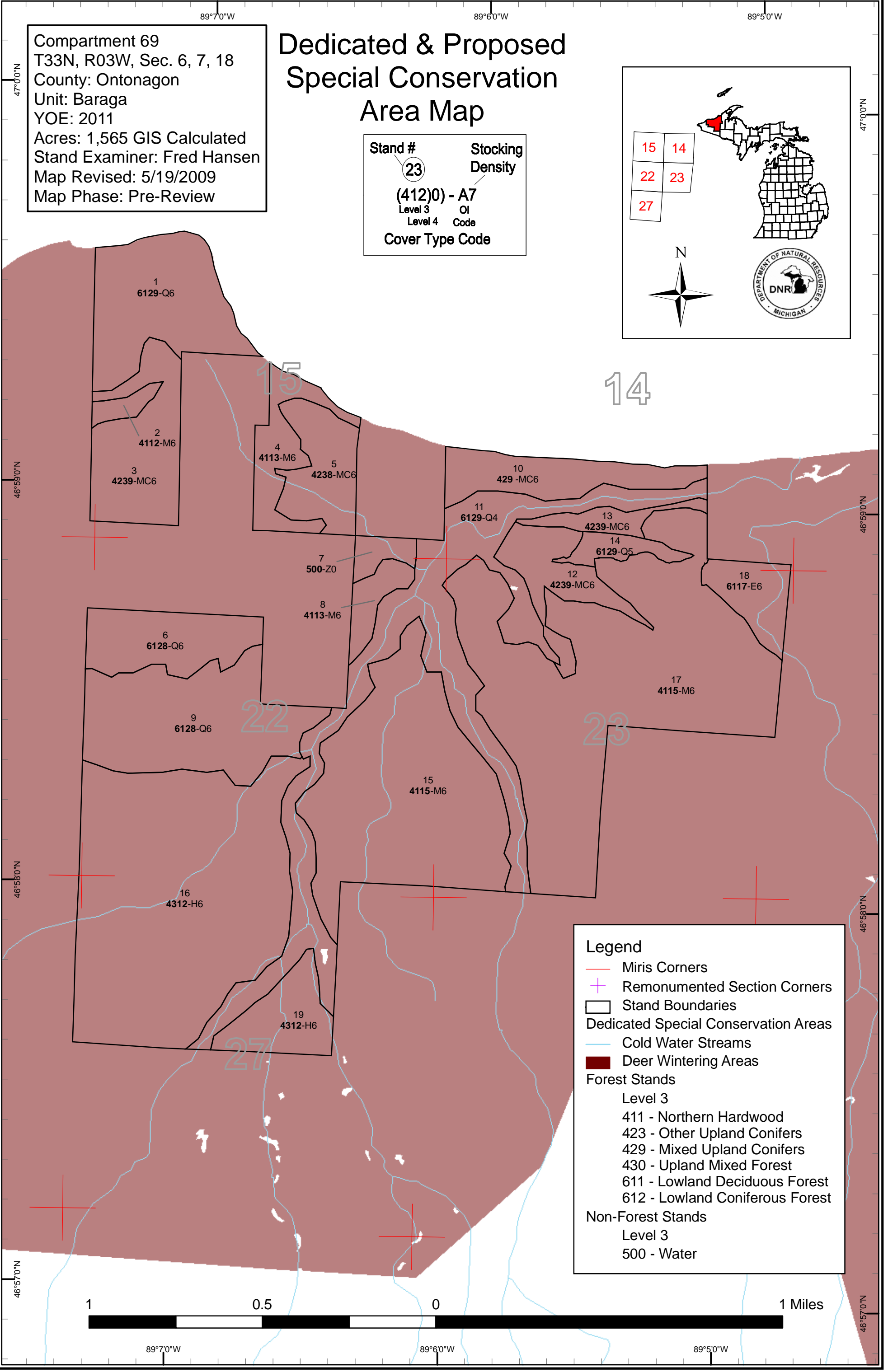
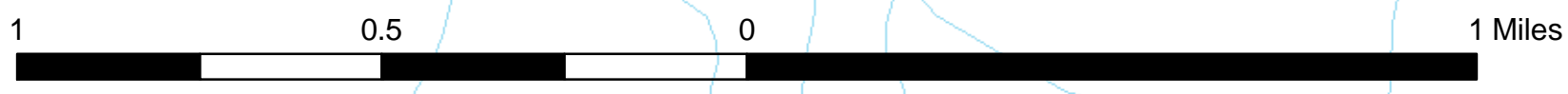
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Dedicated & Proposed Special Conservation Area Map

Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



- Legend**
- Miris Corners
 - + Remonumented Section Corners
 - Stand Boundaries
 - Dedicated Special Conservation Areas
 - Cold Water Streams
 - Deer Wintering Areas
 - Forest Stands
 - Level 3
 - 411 - Northern Hardwood
 - 423 - Other Upland Conifers
 - 429 - Mixed Upland Conifers
 - 430 - Upland Mixed Forest
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - Non-Forest Stands
 - Level 3
 - 500 - Water



Baraga Mgt. Unit

Coverture, Acres, and Age summary
(Level 3 Cover Type)

Compartment 069 Year of Entry 2011

Report Date: 05/19/2009



| | Age Class | | | | | | | | | | | | | | Total | |
|---------------------------|--------------|----------|----------|----------|----------|----------|----------|-------------|----------|------------|----------|----------|--------------|-------------|---------------|---------------|
| | Non-Forested | 1-9 | 10-19 | 20-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-99 | 100-109 | 110-119 | 120 + | | Uneven Age |
| Lowland Coniferous Forest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 191.8 | 0 | 252.3 | 444.1 |
| Lowland Deciduous Forest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27.3 | 27.3 |
| Mixed Upland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46.5 | 0 | 46.5 |
| Northern Hardwood | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33.8 | 0 | 7.4 | 0 | 0 | 0 | 0 | 515.8 | 557.0 |
| Other Upland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 161.5 | 161.5 |
| Upland Mixed Forest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 318.2 | 318.2 |
| Water | 10.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10.1 |
| Total | 10.1 | 0 | 0 | 0 | 0 | 0 | 0 | 33.8 | 0 | 7.4 | 0 | 0 | 191.8 | 46.5 | 1275.1 | 1564.8 |

**PROPOSED TREATMENTS
NO LIMITING FACTORS**



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| Treatment Name | Acres | Stage1 CoverType | Size Density | Stand Age | Treatment Type | Treatment Method | Cover Type Objective |
|-----------------------|-------|---|-------------------|-----------|----------------|-----------------------|----------------------------------|
| 2 11069002-Cut | 7.4 | 4112 - Maple, Beech, Cherry Association | High Density Pole | 80 | Harvest | Single Tree Selection | Maple, Beech, Cherry Association |

Rev Cmnt:
Rev Spec Mark to 70-90 sq ba. Favor oak, white pine and hemlock where present. Refer to the "Complete Marker" for further marking guidelines.
Next Steps: Check for adequate regeneration within 4 years of harvest completion.

| | | | | | | | |
|-----------------------|------|--|-------------------|-----|---------|------------------------|--------------------------------|
| 3 11069003-Cut | 66.3 | 42390 - Mixed Non-Pine Upland Conifers | High Density Pole | 130 | Harvest | Clearcut with Reserves | Mixed Non-Pine Upland Conifers |
|-----------------------|------|--|-------------------|-----|---------|------------------------|--------------------------------|

Rev Cmnt: Our goal is to regenerate Cedar and hemlock and to release the seedlings that are there.
Rev Spec Cut all trees except pine, cedar and oak if present unless marked with orange paint. mark hemlock areas down to 90-110 sq ba.
Next Steps: Check for adequate regeneration within 4 years of harvest completion.

| | | | | | | | |
|-----------------------|------|--|-------------------|-----|---------|------------------------|--|
| 5 11069005-Cut | 42.4 | 42380 - Non Pine Upland Conifer, Mixed Deciduous | High Density Pole | 170 | Harvest | Clearcut with Reserves | Non Pine Upland Conifer, Mixed Deciduous |
|-----------------------|------|--|-------------------|-----|---------|------------------------|--|

Rev Cmnt: Our goal is to regenerate Cedar and hemlock and to release the seedlings that are there.
Rev Spec Cut all trees except hemlock (unless marked with orange paint) pine, cedar and oak if present. Mark hemlock areas down to 90-110 sq ba.
Next Steps: Check for adequate regeneration within 4 years of harvest completion.

| | | | | | | | |
|-----------------------|------|--|-------------------|-----|---------|------------------------|-------------------------------------|
| 6 11069006-Cut | 51.4 | 6128 - Lowland Coniferous, Mixed Deciduous | High Density Pole | 114 | Harvest | Clearcut with Reserves | Lowland Coniferous, Mixed Deciduous |
|-----------------------|------|--|-------------------|-----|---------|------------------------|-------------------------------------|

Rev Cmnt: Our goal is to regenerate Cedar and hemlock and to release the seedlings that are there.
Rev Spec Cut all trees except hemlock (unless marked with orange paint) pine, cedar and oak if present. Mark hemlock areas down to 90-110 sq ba.
Next Steps: Check for adequate regeneration within 4 years of harvest completion.

| | | | | | | | |
|-----------------------|-------|--|-------------------|----|---------|------------------------|-------------------------------------|
| 9 11069009-Cut | 113.6 | 6128 - Lowland Coniferous, Mixed Deciduous | High Density Pole | 86 | Harvest | Clearcut with Reserves | Lowland Coniferous, Mixed Deciduous |
|-----------------------|-------|--|-------------------|----|---------|------------------------|-------------------------------------|

Rev Cmnt: Our goal is to regenerate Cedar and hemlock and to release the seedlings that are there.
Rev Spec Cut all trees except hemlock (unless marked with orange paint) pine, cedar and oak if present. Mark hemlock areas down to 90-110 sq ba.
Next Steps: Check for adequate regeneration within 4 years of harvest completion.

**PROPOSED TREATMENTS
NO LIMITING FACTORS**



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| Treatment Name | Acres | Stage1 CoverType | Size Density | Stand Age | Treatment Type | Treatment Method | Cover Type Objective |
|-------------------------|-------|--|--------------|-----------|----------------|------------------|---------------------------------|
| 14 11069014-Regen_Check | 12.9 | 6129 - Mixed Coniferous Lowland Forest | | 112 | Other | Unspecified | Mixed Coniferous Lowland Forest |

Rev
Cmnt:

Rev Regeneration Survey Request to check the success of past treatment on regenerating Cedar.
Spec

Next none
Steps:

**Total Treatment
Acreage Proposed: 294.0**

**PROPOSED TREATMENTS
WITH LIMITING FACTORS**



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| Treatment Name | Acres | Stage1 Cover Type | Size Density | Stand Age | Treatment Type | Treatment Method | Cover Type Objective | Page 1 of 1 |
|----------------|-------|-------------------|--------------|-----------|----------------|------------------|----------------------|-------------|
|----------------|-------|-------------------|--------------|-----------|----------------|------------------|----------------------|-------------|

Limiting Factor
and Comment:

Rev
Cmnt:

Rev
Spec:

Next
Steps:

No Treatment
Reason

**Total Treatment
Acreage Proposed: 0**



PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

Inventory Method: IFMAP

| Stand | SCA Name | Acres | Comments |
|-------|----------|-------|----------|
| | | | |



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 | Archaeological Site | An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available. |
| 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. |