



# Compartment Review Presentation

## Escanaba Forest Management Unit

Compartment 26

Entry Year 2015

Acreage: 328

County Menominee

Management Area: Menominee End Moraine

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**Revision Date:** 06/12/2013

**Stand Examiner:** Dustin Salter

**Legal Description:**

T35N R29W Section 25

**Identified Planning Goals:**

This compartment is comprised primarily of aspen stands with varying densities of pin oak mixed in. There are also three small red pine plantations within the compartment. One of the aspen stands are prescribed for a clearcut, managing for aspen/pin oak. There are numerous epi-centers of oak wilt throughout this compartment. There were a number of oak wilt epi-centers treated (vibratory plowed & harvested) over the last ten years.

**Soil and topography:**

Soils are primarily Rubicon sand with some Grayling and Pemene. Topography is level to gently rolling.

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

This compartment is located in the middle of a block of state forest land that is about 20 miles long and 8 miles wide in the southwestern part of Menominee County. The compartment is surrounded by state land on the east and south sides. The north and west sides are all private property. The primary use of this land is recreation.

**Unique Natural Features:**

No Unique Natural Features known.

**Archeological, Historical, and Cultural Features:**

No Archeological, Historical, or Cultural Features known.

**Special Management Designations or Considerations:**

There are no designated or specially managed resources in this compartment. Compartment 109 lies to the east and south of this compartment. Compartment 109 is managed as (not-dedicated) a Natural Area. This area is managed as a Oak/Pine barrens.

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:**

**Mineral Resource and Development Concerns and/or Restrictions**

Surface sediments consist of an end moraine of coarse-textured glacial till. The glacial drift thickness varies between 10 and 50 feet. Beneath the glacial drift is the Cambrian Munising Formation which overlaps Precambrian aged rocks, which may have metallic and nonmetallic mineral potential. State land is currently nominated to be leased for metallic exploration. Gravel pits are located in the area and potential should be good. No economic oil and gas production has been found in the UP.

**Vehicle Access:**

There are two county roads that run down both the west side (Z-1 Road) and the east side (Sturgeon Landing Road). There are a couple of two-track roads that branch off the county roads that transect the compartment.

**Survey Needs:**

No registered corners will need to be set.

**Recreational Facilities and Opportunities:**

There are no developed recreational facilities within the compartment. The main uses for this area are hunting and four-wheeling.

**Fire Protection:**

There is very little threat of a major fire in this compartment, due to the abundance of deciduous cover types. There are no water resources available within the compartment, but the Menominee River is only about a mile to the west and the chain of Shakey Lakes is only about a half mile to the north.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

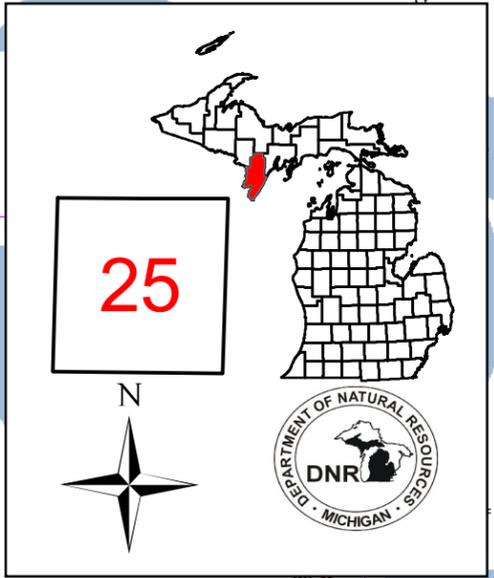
**The following information is displayed, where pertinent, on the attached compartment maps:**

- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatment Map

Compartment: 026  
 T35N R29W  
 25  
 County: Menominee  
 Unit: Escanaba  
 YOE: 2015  
 Acres: 328 GIS Calculated  
 Examiner: Dustin Salter  
 Map Revised: 07/22/2013  
 Map Phase: Pre-Review

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



**Legend**

- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Stream
- Intermittent Stream
- █ Lakes and Rivers
- █ State Forest Land

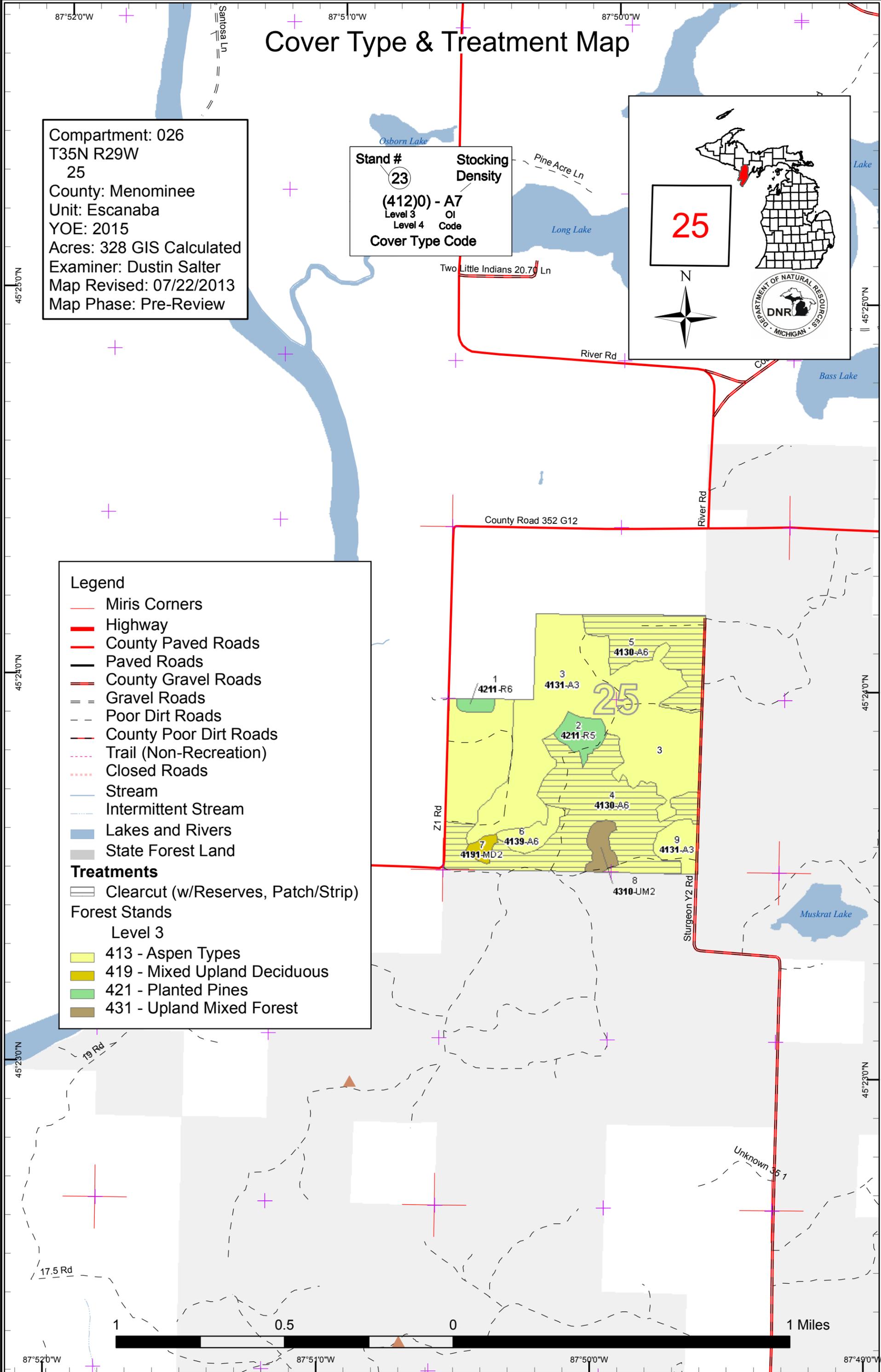
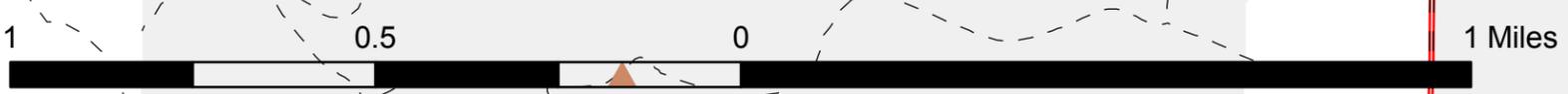
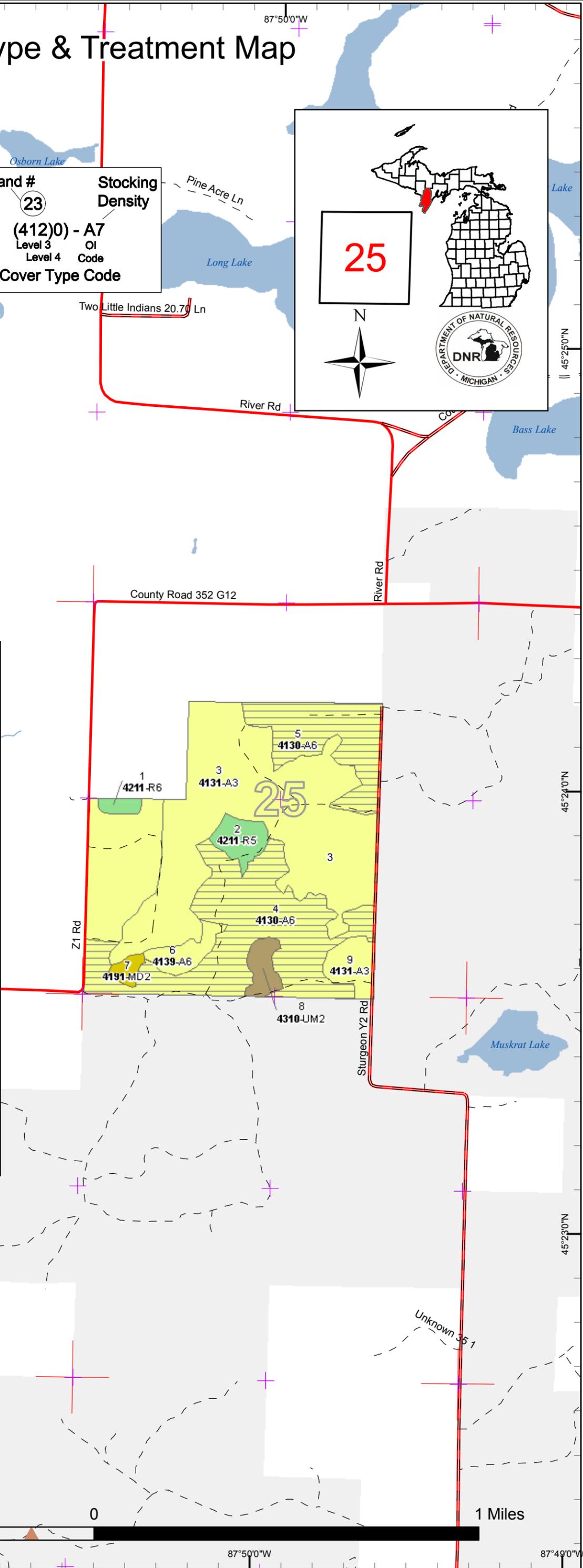
**Treatments**

- Clearcut (w/Reserves, Patch/Strip)

**Forest Stands**

Level 3

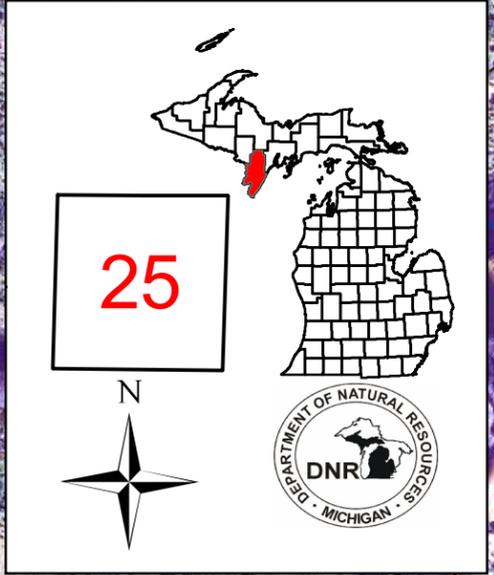
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 431 - Upland Mixed Forest



# Stand Boundary Map

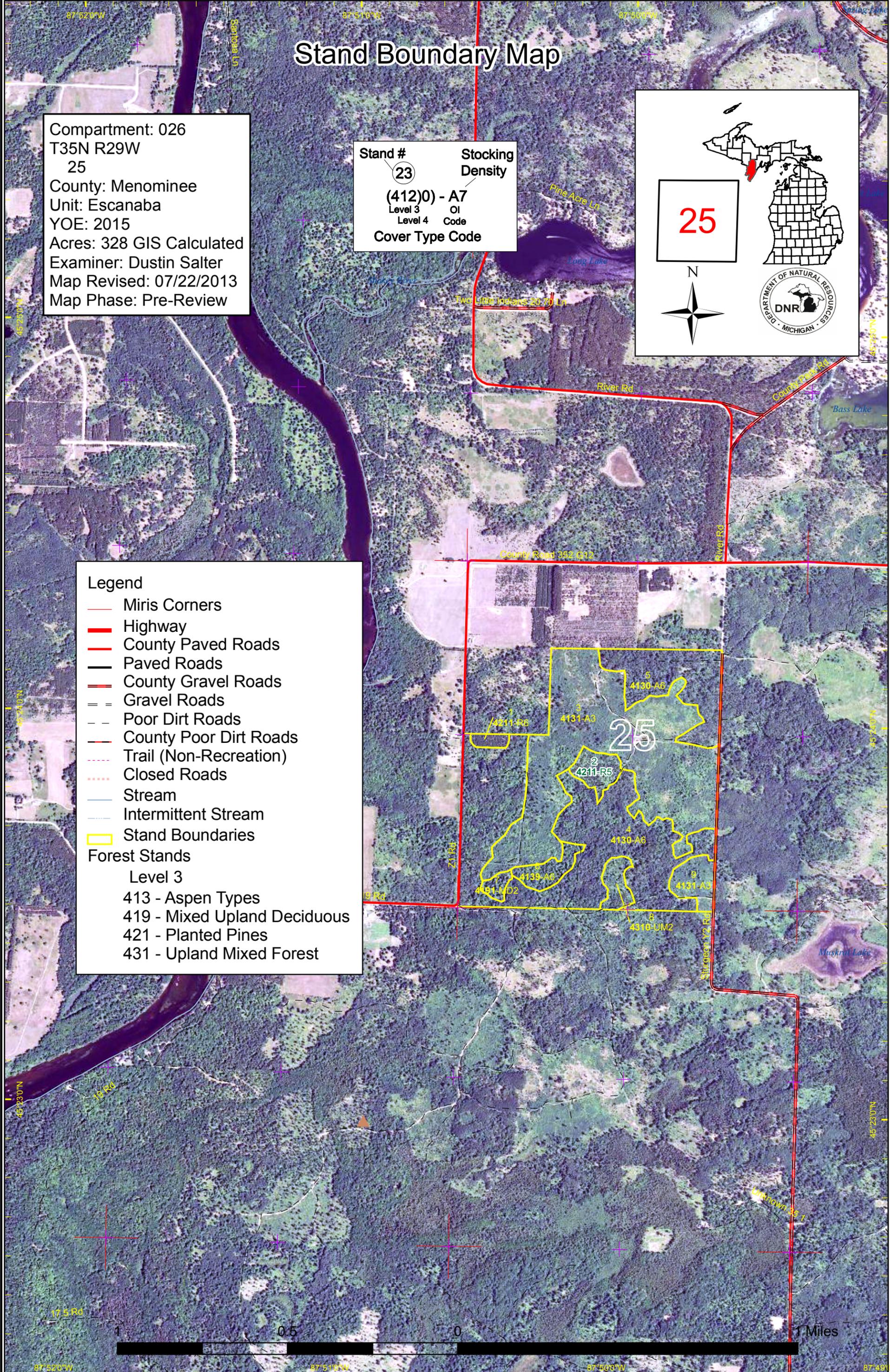
Compartment: 026  
 T35N R29W  
 25  
 County: Menominee  
 Unit: Escanaba  
 YOE: 2015  
 Acres: 328 GIS Calculated  
 Examiner: Dustin Salter  
 Map Revised: 07/22/2013  
 Map Phase: Pre-Review

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



## Legend

- Miris Corners
  - Highway
  - County Paved Roads
  - Paved Roads
  - County Gravel Roads
  - Gravel Roads
  - - Poor Dirt Roads
  - - County Poor Dirt Roads
  - · - · Trail (Non-Recreation)
  - · - · Closed Roads
  - Stream
  - - Intermittent Stream
  - Stand Boundaries
- Forest Stands**
- Level 3
- 413 - Aspen Types
  - 419 - Mixed Upland Deciduous
  - 421 - Planted Pines
  - 431 - Upland Mixed Forest

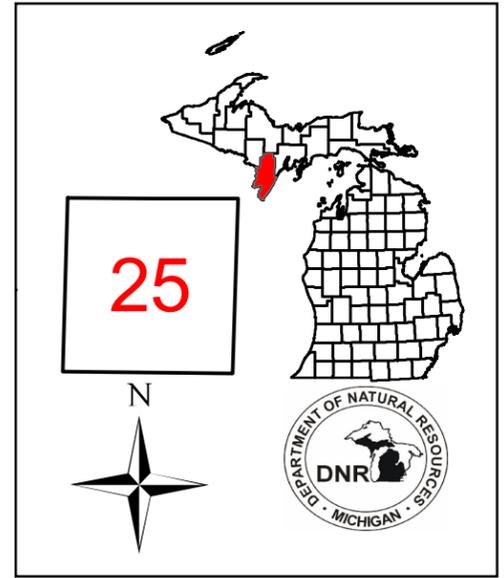


87°52'0"W 87°51'0"W 87°50'0"W 87°49'0"W

# Special Conservation Areas & Site Conditions Map

Compartment: 026  
 T35N R29W  
 25  
 County: Menominee  
 Unit: Escanaba  
 YOE: 2015  
 Acres: 328 GIS Calculated  
 Examiner: Dustin Salter  
 Map Revised: 07/22/2013  
 Map Phase: Pre-Review

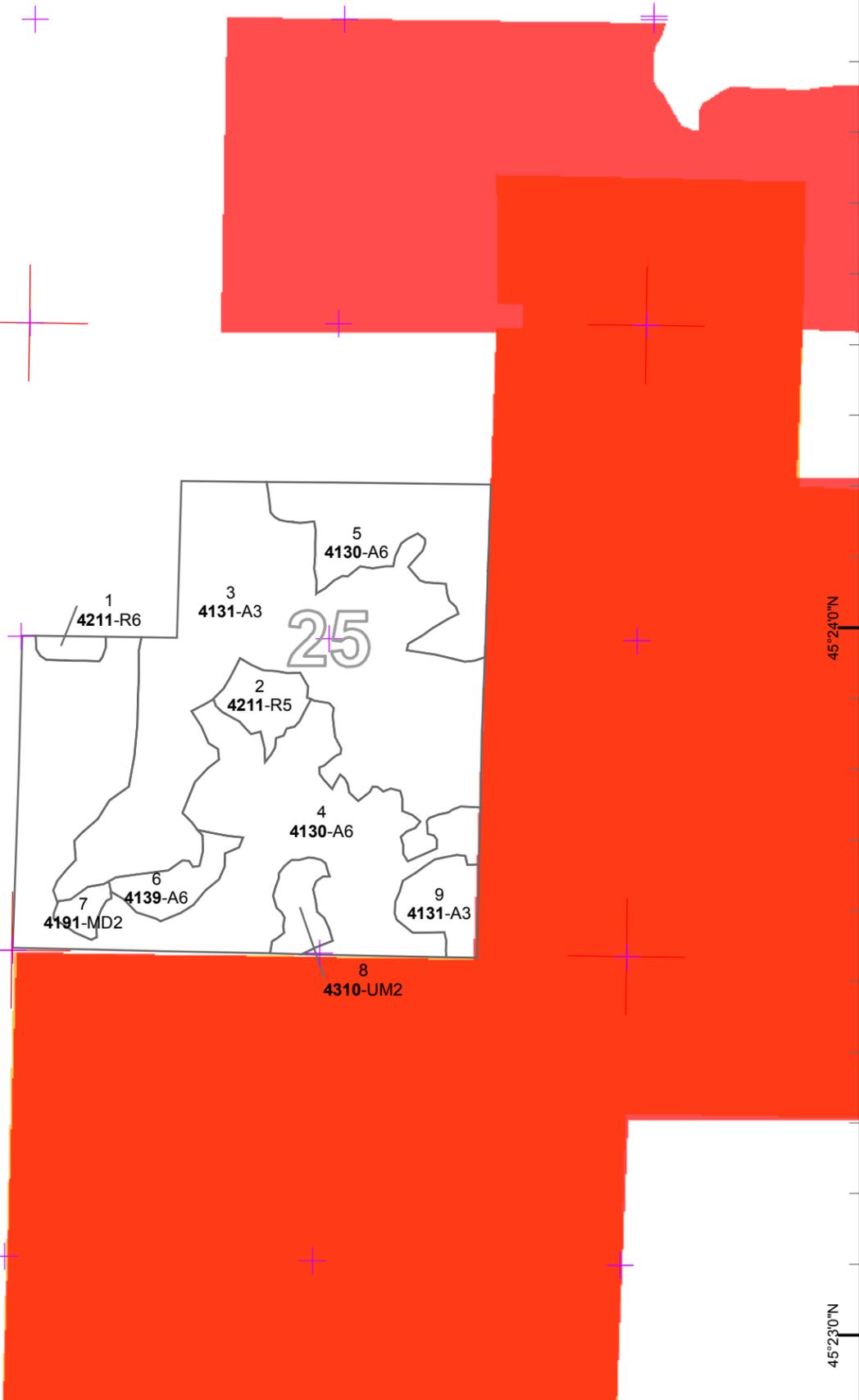
Stand #      Stacking  
                  Density  
 23  
 (412)0 - A7  
 Level 3      OI  
 Level 4      Code  
 Cover Type Code



45°25'0"N

45°25'0"N

**Legend**  
 — Miris Corners  
 □ Stand Boundaries  
**Dedicated Special Conservation Areas**  
 ■ Ecological Reference Areas



45°24'0"N

45°24'0"N

45°23'0"N

45°23'0"N

1 0.5 0 1 Miles

87°51'0"W

87°50'0"W

87°49'0"W

**Report 1 – Total Acres by Cover Type and Age Class**



|                        | Age Class  |           |          |          |          |            |          |          |          |          |          |          |          |            | 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 +    | Uneven Age |            |
| Aspen                  | 142        | 0         | 8        | 0        | 0        | 156        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0          | 306        |
| Mixed Upland Deciduous | 0          | 3         | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0          | 3          |
| Red Pine               | 0          | 11        | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0          | 11         |
| Upland Mixed Forest    | 0          | 7         | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0          | 7          |
| <b>Total</b>           | <b>142</b> | <b>21</b> | <b>8</b> | <b>0</b> | <b>0</b> | <b>156</b> | <b>0</b>   | <b>328</b> |



## Report 2 – Proposed Treatment Summaries

**Escanaba Mgt. Unit**  
**Year of Entry 2015**

**Compartment 026**  
**Total Compartment Acres: 328**

### Acres by Treatment Type

|                          |                         |           |
|--------------------------|-------------------------|-----------|
| Commercial Harvest - 119 | Tree Planting - 0       | Other - 0 |
| Habitat Cut - 0          | Opening Maintenance - 0 |           |

### Cover Type by Harvest Method

|                    | Clearcut | Selection | Seed Tree | Shelterwood | Thinning | Other - Specify | Total Acres |
|--------------------|----------|-----------|-----------|-------------|----------|-----------------|-------------|
| <b>Aspen Types</b> | 119      | 0         | 0         | 0           | 0        | 0               | 119         |
| <b>Total</b>       | 119      | 0         | 0         | 0           | 0        | 0               | 119         |



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| Treatment Name | Acres | CoverType    | Size Density      | Stand Age | BA Range | Treatment Type | Treatment Method       | Cover Type Objective | Approval Status       |
|----------------|-------|--------------|-------------------|-----------|----------|----------------|------------------------|----------------------|-----------------------|
| 4 33026004-Cut | 83.7  | 4130 - Aspen | High Density Pole | 51        |          | Harvest        | Clearcut with Reserves | 4131 - Aspen, Oak    | Cmpt. Review Proposal |

Prescription Clearcut with reserves - cut all trees greater than 3 inches; except leave 5% retention. The retention will include some retention patches (centered on denser clumps of oak) and scattered pine. There is a couple of suspected oak wilt epi-centers within this stand on the east side. Treat the oak wilt as necessary when funding is available.

Other Comments: Overall low quality aspen, except for some big tooth aspen on the west edge of the stand.

Next Steps:

Proposed Start Date: 10/01/2014

|                |      |              |                   |    |  |         |                        |                   |                       |
|----------------|------|--------------|-------------------|----|--|---------|------------------------|-------------------|-----------------------|
| 5 33026005-Cut | 35.7 | 4130 - Aspen | High Density Pole | 50 |  | Harvest | Clearcut with Reserves | 4131 - Aspen, Oak | Cmpt. Review Proposal |
|----------------|------|--------------|-------------------|----|--|---------|------------------------|-------------------|-----------------------|

Prescription Clearcut with reserves - cut all trees greater than 3 inches; except red pine, white pine and 4 retention areas equaling 2.2 acres. Overall there is 7 to 8% retention that was left. This stand is being managed for aspen and oak.

Other Comments: Stand is on contract 022-11-01 to be clearcut. This stand was added to the 2011 POW to make up for the acreage shortfall. The contract expires 9/30/13.

Next Steps:

Proposed Start Date: 10/01/2010

**Total Treatment Acreage Proposed: 119.4**



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| Treatment Name | Acres | CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|----------------|-------|-----------|--------------|-----------|----------|----------------|------------------|----------------------|-----------------|
|----------------|-------|-----------|--------------|-----------|----------|----------------|------------------|----------------------|-----------------|

#Type!

Prescription  
Specs:

Other  
Comment:

Next  
Steps:

Proposed  
Start Date: #Type!

Limiting Factor

**Total Treatment  
Acreage Proposed: 0**

## Report 5 – Site Conditions

**Escanaba Mgt. Unit**  
**Dustin Salter : Examiner**

**Compartment 026**  
**Year of Entry 2015**

### Availability for Management

| Total<br>Acres | Acres<br>Available | Acres<br>Not Available | Dominant Site Conditions      | No  |
|----------------|--------------------|------------------------|-------------------------------|-----|
| 306            | 306                |                        | <b>Aspen</b>                  | 306 |
| 3              | 3                  |                        | <b>Mixed Upland Deciduous</b> | 3   |
| 11             | 11                 |                        | <b>Red Pine</b>               | 11  |
| 7              | 7                  |                        | <b>Upland Mixed Forest</b>    | 7   |
| 328            | 328                |                        | Total Forested Acres          | 328 |
|                | 100%               |                        | Relative Percent              |     |

*\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*



### Report 6 – 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.

| SCA Name        | SCA Category | Detail Type | Recommendation | Acres |
|-----------------|--------------|-------------|----------------|-------|
| <b>Comments</b> |              |             |                |       |



## Report 7 – 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               | Non-Dedicated Natural Areas and National Natural Landmarks | This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.  |
| HCVA              | Legally dedicated Natural Areas, Wilderness or Wild Areas  | The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.  |
| ERA               | Ecological Reference Areas                                 | Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.                |



|   | Level 4<br>Cover Type                      | Size<br>Density      | Acres | Stand<br>Age | BA<br>Range | General<br>Comments:   |
|---|--|----------------------|-------|--------------|-------------|--|
| 1 | 42110 - Planted Red Pine                   | High Density Pole    | 2.7   | 18           | 81-110      | Stand was trenched and planted with red pine in 1994.  |
| 2 | 42111 - Planted Red Pine, Mixed Deciduous  | Medium Density Pole  | 8.6   | 18           | 51-80       | Stand was trenched and planted with red pine in 1994.  |
| 3 | 4131 - Aspen, Oak                          | High Density Sapling | 131.5 | 7            |             | Stands were clearcut 7 - 8 years ago. Part of this stand included some treatments (vibratory plowed & harvested) for oak wilt. The treatments for oak wilt were on the north and east edges of the stand. Stand is fully stocked with a mix of aspen, oak, and maple regeneration. |
| 4 | 4130 - Aspen                               | High Density Pole    | 120.4 | 51           |             | Overall low quality aspen, except for some big tooth aspen on the west edge of the stand.  |
| 5 | 4130 - Aspen                               | High Density Pole    | 35.7  | 50           |             | Stand is on contract 022-11-01 to be clearcut. This stand was added to the 2011 POW to make up for the acreage shortfall. The contract expires 9/30/13.  |
| 6 | 4139 - Aspen, Mixed Deciduous              | High Density Pole    | 8.3   | 26           |             | This stand is two-aged, but there isn't a large age difference. The larger stems are 3 to 5 inches at DBH and the younger stems are one to three. Stand is a mix of aspen, red maple, and pin oak.   |
| 7 | 4191 - Mixed Upland Deciduous with Conifer | Medium Density       | 3.1   | 18           | 1-50        | Stand was trenched and planted with red pine in 1994. Stand has failed, there is very little red pine remaining and what is present is scattered. The stand has filled in with red maple and pin oak sprouts.  |
| 8 | 4310 - Pine, Oak Mix                       | Medium Density       | 6.8   | 18           | 1-50        | Stand was trenched and planted with red pine in 1994. Stand has failed, there is very little red pine remaining; except on the south end of the stand. The stand is filling in with pin oak, jack pine, and black cherry.  |
| 9 | 4131 - Aspen, Oak                          | High Density Sapling | 10.4  | 5            |             | Stand was clearcut in the winter of 2007-08 on contract 025-08-01. This stand was cut because it contained 3-4 epi-centers of oak wilt that was treated (vibratory plowed & harvested). The red pine and white pine were retained.   |



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| Stand | Cover Type | Acres | Managed Site | Management Priority (Objective) | General Comments: |
|-------|------------|-------|--------------|---------------------------------|-------------------|
|-------|------------|-------|--------------|---------------------------------|-------------------|

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