



**Escanaba Forest Management Unit  
Compartment Review Presentation  
Compartment # 031    Entry Year: 2013  
Compartment Acreage: 640    County: Menominee**

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**Revision Date:** July 18, 2011

**Stand Examiner:** Joe Durbin, Forester FMD; Bill Rollo, Wildlife Division

**Legal Description:** T34N, R29W, Sections 11, 12, 13 and 14

**Management Goals:** This compartment is part of the Menominee End Moraine Management Area and is located about 14 miles southwest of Stephenson, Michigan. It is a mix of upland and lowland types. Upland types are about 68% of the compartment and include northern hardwoods, mixed oak/aspens, aspen, white pine timber types and a red pine plantation. Lowland types are about 32% of the compartment and include swales of low-density conifer, cedar and lowland hardwood types. The water type is the Menominee River.

Approximately 206 acres comprising 8 stands are proposed for treatment. Of the proposed treatments, approximately 110 acres (4 stands) are clearcut with reserves, 88 acres (3 stands) are thinning and 8 acres (1 stand) are currently on contract for a shelterwood with reserves harvest.

**Soil and Topography:** Topography is gently rolling to level. The soils are primarily well-drained sands, loams and mucks/peats. The major soil series are Grayling, Moquah, Pemene, Tawas and Lupton.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The ownership is a contiguous block with state-ownership to the northwest, private to the northeast east and west and Wisconsin private to the south. There are no private in-holdings but access to several private landowners traverses this compartment. Private ownership has summer residential/recreational cabins that are in-use much of the year. Land use in the area is mainly recreational hunting, fishing, trapping and weekend camping. Northeast Wisconsin residents also frequent this area and some are landowners.

**Unique, Natural Features:** Menominee River and Bear Point.

**Archeological, Historical, and Cultural Features:** None known.

**Special Management Designations or Considerations:** The floodplain forest along the Menominee River contains tree species (silver maple, hackberry, hickory, witch hazel, pricklyash, etc.) that typically are found more southerly. Maintenance of this diversity is desired.

**Watershed and Fisheries Considerations:** The Menominee River is the southern boundary of the compartment with about 1.4 miles of frontage along Bear Point. The river can be accessed at boat launches 1.7 miles northwest and 1.5 miles east. A .5 acre vernal pool lies in the NENE of section 14 with an intermittent stream flowing east from it through private property. Another small unnamed stream flows southeast from the northwest portion of the compartment joining with the intermittent stream on private land. No major streams or lakes lie within the compartment.

**Wildlife Habitat Considerations:** This compartment is within the Menominee End Moraine Management Area and contains forest types that are adapted to sandy outwash plain conditions. Most of the unit's oak resource is located here, and perpetuation of this cover type is of high priority. The presence of oak wilt

disease increases the urgency to find management solutions to oak regeneration challenges. Forest treatments mainly focus on timber harvests within pine-oak-aspen types. Mature oak will be maintained in various retention amounts to ensure mast is provided for wildlife. The southern portion of this compartment lies adjacent the Menominee River. A diverse hardwood peninsula between a bend in the river is designated a special conservation area where natural processes will be allowed to operate. The peninsula contains forest species that are characteristic of more southern areas (silver maple, hickory, butternut). The development of large-diameter trees, snags, and dead woody debris will be valuable to cavity nesting and insectivorous birds, small mammals, and many other species.

**Mineral Resource and Development Concerns and/or Restrictions:** Sections 11 – 14, T34N-R29W, Menominee County Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between 10 and 50 feet. The Cambrian Munising Formation underlies the glacial drift. There is not an economic use for the Munising, but it overlaps Precambrian aged rocks, which may have metallic and nonmetallic mineral potential. State land leased for metallic mineral exploration is located three miles to the north. A gravel pit is located less than one-half mile to the east of the compartment, and there may be potential in the compartment. No economic oil and gas production has been found in the UP.

**Vehicle Access:** This compartment is well roaded with the Sturgeon Landing Road, a county gravel/dirt road, accessing most of the compartment from the east and a good dirt forest road accessing the northern portion of the compartment through compartment 28.

**Survey Needs:** Thirteen survey corners will need to be set for the proposed treatments.

**Recreational Facilities and Opportunities:** There are no developed recreational facilities within this compartment. Boat launching facilities on the Menominee River are available 1.5 miles east and northwest of this compartment.

**Fire Protection:** This compartment is well roaded with good county gravel/dirt road and good dirt forest roads. The Menominee River is the southern boundary. There is a wide and wet slough through the north half of the compartment. The stands north of the slough are accessed through state land from the north via good dirt forest roads.

**Additional Compartment Information:**

- **The following reports from the Inventory are attached:**
  - ◆ **Total Acres by Cover Type and Age Class**
  - ◆ **Proposed Treatment Summary**
  - ◆ **Proposed Treatments – No Limiting Factors**
  - ◆ **Proposed Treatments – With Limiting Factors**
  - ◆ **Stand Details (Forested and Nonforested)**
  - ◆ **Dedicated and Proposed Special Conservation Areas**
  
- **The following information is displayed, where pertinent, on the attached compartment maps:**
  - ◆ **Base feature information, stand boundaries, cover types, and numbers**
  - ◆ **Proposed treatments**
  - ◆ **Details on the road access system**

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



	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
Low-Density Trees	144	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Water	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
<b>Total</b>	<b>177</b>	<b>0</b>	<b>177</b>													



## Table 2 – Proposed Treatment Summaries

**Escanaba Mgt. Unit**  
**Year of Entry 2013**

**Compartment 031**  
**Total Compartment Acres: 639.8**

### Acres by Treatment Type

Commercial Harvest - 206	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

### Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
<b>Aspen</b>	14	0	0	0	0	0	14
<b>Mixed Upland Deciduous</b>	87	0	0	0	0	0	87
<b>Natural Mixed Pines</b>	0	0	0	8	0	0	8
<b>Northern Hardwood</b>	9	0	0	0	0	0	9
<b>Red Pine</b>	0	0	0	0	39	0	39
<b>White Pine</b>	0	0	0	0	49	0	49
<b>Total</b>	<b>110</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>88</b>	<b>0</b>	<b>206</b>



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	33031002_CC w/R	4.8	4130 - Aspen	Medium Density Saplin	20	Harvest	Clearcut with Reserves	4113 - R.Maple, Conifer	Cmpt. Review Proposal
<p><u>Prescription:</u> Clearcut w/ reserves--On the high ground which is a red maple/birch/aspen pole stand, cut all trees except hemlock and mark oak and pine to leave. East of the red maple stand is an ash swale. In this area, leave all hemlock and mark seed trees of various species to leave favoring green/white ash and bur oak.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u> Due to swale, this stand should be cut during dry weather or winter. If this stand is not included in the treatment of the other stands in this compartment, it could be cut if the adjacent private owner to the west treats their stand.</p> <p><u>Next</u> <u>Steps:</u> Next OI entry, check for a mixed stand of regeneration. Acceptable regeation will be a mixture of maple, oak and birch seedlings or stump sprouts with aspen, fir and pine. Both the high and low ground should regenerate about the same, if deer browse is minimal.</p>									
3	33031003- CCw/R	8.8	4119 - Mixed Northern Hardwoods	High Density Log	76	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
<p><u>Prescription:</u> Clearcut with Reserves. Cut all trees except beech and hemlock and mark oak and pine and scattered seed trees to leave.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u> Many of the white pine are large wolfy trees.</p> <p><u>Next</u> <u>Steps:</u> Next OI entry, check for maple, birch, oak and other hardwood stump sprouts and seedlings and aspen, fir and pine seedlings.</p>									
4	33031004- Thin	11.2	42210 - Natural Red Pine	Medium Density Pole	88	Harvest	Crown Thinning	42210 - Natural Red Pine	Cmpt. Review Proposal
<p><u>Prescription:</u> Thin to residual basal area of 80-90. Mark trees to cut.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u> Stand density is variable. Residual BA in more open areas may be less than 80. Treat oak wilt if found.</p> <p><u>Next</u> <u>Steps:</u></p>									
6	33031006- Thin	49.0	42200 - Natural White Pine	Medium Density Log	71	Harvest	Crown Thinning	42290 - Natural Mixed Pine	Cmpt. Review Proposal
<p><u>Prescription:</u> Thin to residual BA of 80-90. Mark red and white pine to harvest. Cut all A, ash, M, Fs, Fb and jack pine. Retain hemlock, oak and beech, if present.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u> Stand density is variable. ranging from less than 70 to 150+</p> <p><u>Next</u> <u>Steps:</u></p>									
7	33031007- CCw/R	87.3	4199 - Other Mixed Upland Deciduous	Medium Density Log	88	Harvest	Clearcut with Reserves	4121 - Oak, Aspen	Cmpt. Review Proposal
<p><u>Prescription:</u> Harvest all aspen, paper birch, hardwood, jack pine, spruce, balsam and tamarack. Mark scattered seed trees of red/pin/white oak and red &amp; white pine. Leave all hemlock and cedar. Also, retain (red line) several one acre patches of mature mixed oak and pine leaving maximum (10%) retention.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u> Treat oak wilt pockets if found and salvage dead/dying trees.</p> <p><u>Next</u> <u>Steps:</u> Monitor for occurrence oak wilt. Next OI entry, check for aspen, pine and fir seedlings and hardwood, birch and oak stump sprouts and seedlings.</p>									

**Table 3 -- Treatments Prescribed  
with No Limiting Factor**



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
9	33031009_Sh wd	8.0	42290 - Natural Mixed Pine	Low Density Log	100	Harvest	Shelter Wood with Reserves	4122 - Oak, Pine	Cmpt. Review Proposal

Prescription Stand on contract Red Oak Thinning Sale--330290901.

Specs:

Other Oak wilt pockets were also treated.

Comments:

Next Monitor for reoccurrence of oak wilt. Next OI entry, check for oak, pine and hardwood regeneration.

Steps:

11	33031011- CCw/R	8.8	4133 - Aspen, Mixed Pine	High Density Pole	52	Harvest	Clearcut with Reserves	4133 - Aspen, Mixed Pine	Cmpt. Review Proposal
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Prescription Cut all aspen, maple, birch, spruce, fir and jack pine. Retain hemlock and beech, if present, and marked oak (retain mainly some of the larger oak) and scattered red and white pine seed trees.

Specs:

Other Treat oak wilt if present.

Comments:

Next Next OI entry, check regeneration for aspen, fir and pine seedlings and hardwood and oak stump sprouts and seedlings.

Steps:

15	33031015- Thin	27.7	42110 - Planted Red Pine	Medium Density Pole	28	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Thin to residual BA of 70-80. Mark trees to cut. Cut all aspen, maple, paper birch, balsam fir, spruce and jack pine. Retain all hemlock and beech, if present.

Specs:

Other Treat oak wilt as found. Restrict operating season to exclude Feb 1 through July 15 for eagle fledging season and loose bark season.

Comments:

Next Monitor for reoccurrence of oak wilt

Steps:

**Total Treatment  
Acreage Proposed: 205.6**

**Table 4 -- Treatments Prescribed with a Limiting Factor**



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription Specs:

Other Comment:

Next Steps:

Limiting Factor and No Treatment Reason

**Total Treatment Acreage Proposed: 0**

**Out of YOE -- Treatments  
Prescribed with No Limiting Factor**

Year of Entry: 2013



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
33002_OutOfY OE-Cut	0.7				Harvest	Clearcut with Reserves	6129 - Mixed Coniferous Lowland Forest	Cmpt. Review Proposal

Prescription Final harvest this stand, leaving some seed trees. Harvest this stand with stand 13 in comp 1.

Specs:

Other Decent quality tamarack and spruce stand.

Comments:

Next Manage this stand for a mix of tamarack and spruce primarily, but a mix with other lowland species is acceptable.

Steps:

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**Total Treatment  
Acreage Proposed: 0.7**

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Escanaba Mgt. Unit

5 – Forested Stands

Compartment: 031  
Year of Entry: 2013



Level 4  
Cover Type

Size  
Density

Acres

Stand  
Age

BA  
Range

General  
Comments:

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Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
10	3302 - Low Density Conifer Trees	114.4	No	Lowland Mixed Forest	SCA Removal
13	3302 - Low Density Conifer Trees	29.1	Natural Regen	Lowland Conifers	SCA Removal. Stand cut in 2006--lots of tag alder 3-5 feet tall with scattered cedar, tamarack and black spruce seed trees. Some regen is showing the snow but not much; check in 5 years for more regen.
18	50 - Water	33.8	No	Low (NonForested)	Menominee River



## 7 – 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.

Stand	SCA Type	SCA Name	Acres	Comments
1	SCA Removal	33031001	2.9	SCA Removal--Site not unique.
8	SCA Removal	33031008	11.6	SCA Removal--Site not unique.
12	Unique Site - SCA	33031012	16.0	SCA--Menominee River riparian corridor and unique species components: butternut, bitternut hickory, silver maple, etc. Vernal pools and wetland swales.
16	Unique Site - SCA	33031016	140.9	SCA--Menominee River riparian corridor and unique species components: butternut, bitternut hickory, silver maple, etc. Vernal pools and wetland swales.
10	SCA Removal	NF_33031010	114.4	SCA Removal--Site not unique.
13	SCA Removal	NF_33031013	29.1	SCA Removal--Site not unique.



### 8 – 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

<b>Conservation Area</b>	<b>Type</b>	<b>Description</b>
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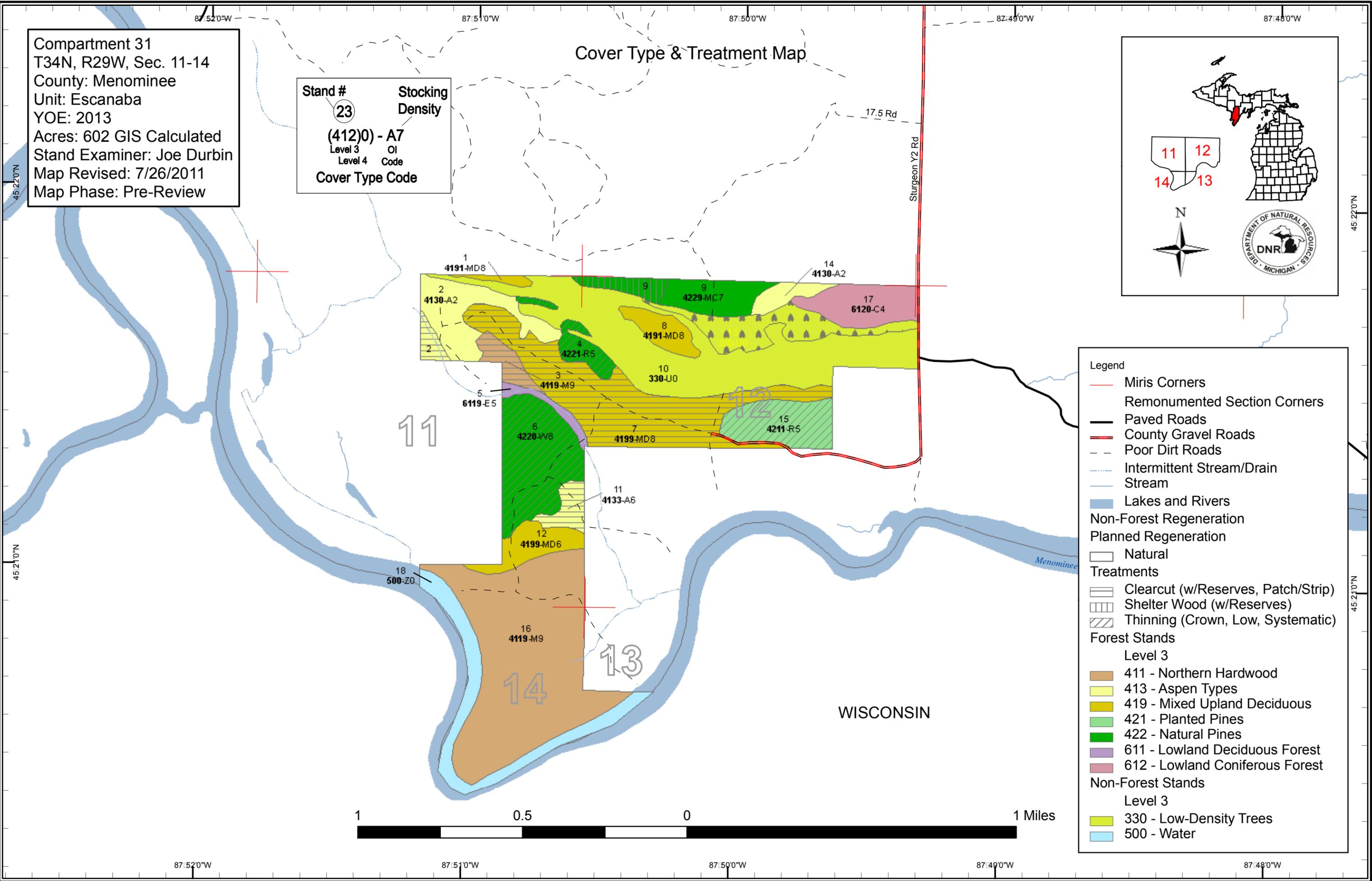
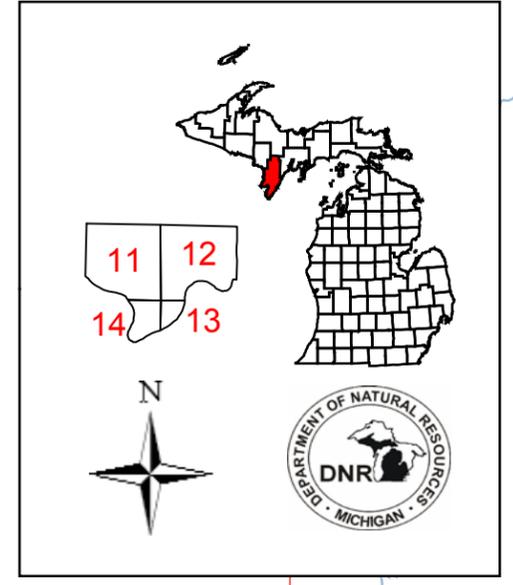
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Compartment 31  
 T34N, R29W, Sec. 11-14  
 County: Menominee  
 Unit: Escanaba  
 YOE: 2013  
 Acres: 602 GIS Calculated  
 Stand Examiner: Joe Durbin  
 Map Revised: 7/26/2011  
 Map Phase: Pre-Review

Stand #  
 23  
 Stocking  
 Density  
 (4120) - A7  
 Level 3 OI  
 Level 4 Code  
 Cover Type Code

### Cover Type & Treatment Map



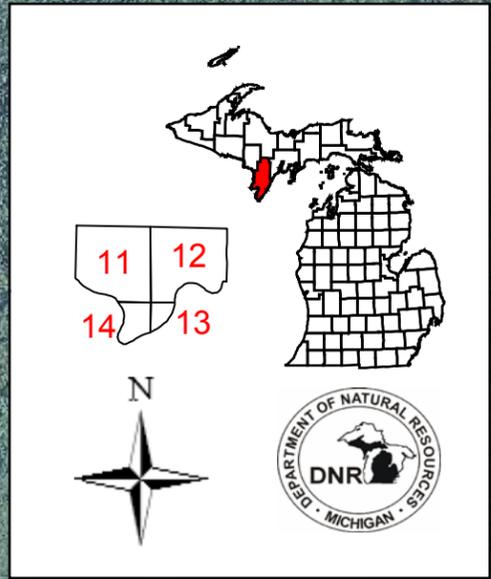
**Legend**

- Miris Corners
- Remonumented Section Corners
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- Non-Forest Regeneration
- Planned Regeneration
- Natural
- Treatments
  - Clearcut (w/Reserves, Patch/Strip)
  - Shelter Wood (w/Reserves)
  - Thinning (Crown, Low, Systematic)
- Forest Stands
  - Level 3
    - 411 - Northern Hardwood
    - 413 - Aspen Types
    - 419 - Mixed Upland Deciduous
    - 421 - Planted Pines
    - 422 - Natural Pines
    - 611 - Lowland Deciduous Forest
    - 612 - Lowland Coniferous Forest
- Non-Forest Stands
  - Level 3
    - 330 - Low-Density Trees
    - 500 - Water

# Stand Boundary Map

Compartment 31  
 T34N, R29W, Sec. 11-14  
 County: Menominee  
 Unit: Escanaba  
 YOE: 2013  
 Acres: 602 GIS Calculated  
 Stand Examiner: Joe Durbin  
 Map Revised: 7/26/2011  
 Map Phase: Pre-Review

Stand # **23**  
 Stacking Density  
**(4120) - A7**  
 Level 3 OI  
 Level 4 Code  
 Cover Type Code



**Legend**

- Miris Corners
- Remonumented Section Corners
- Paved Roads
- County Gravel Roads
- - - Poor Dirt Roads
- Intermittent Stream/Drain
- Stream
- Stand Boundaries

**Forest Stands**

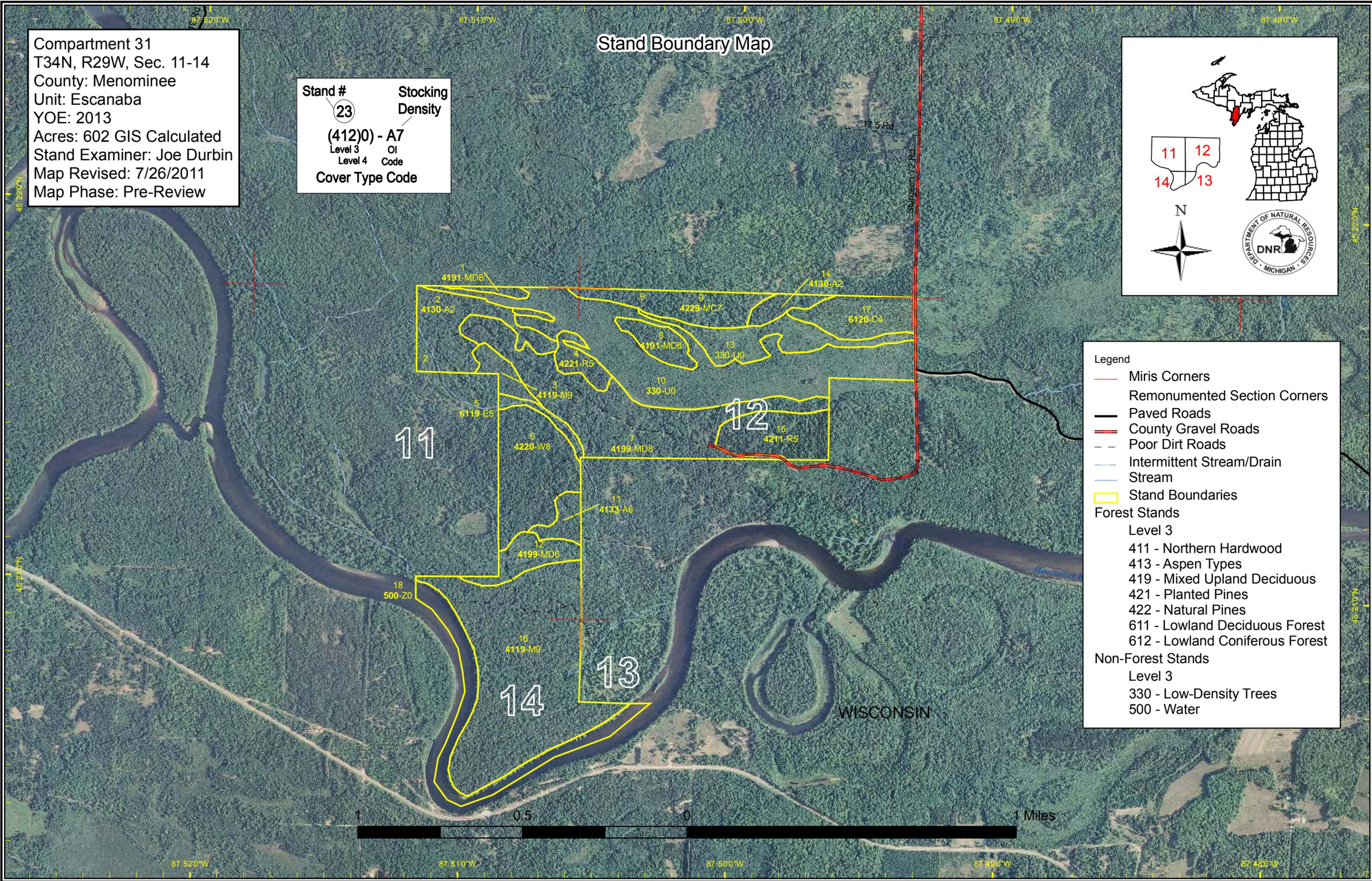
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

**Non-Forest Stands**

Level 3

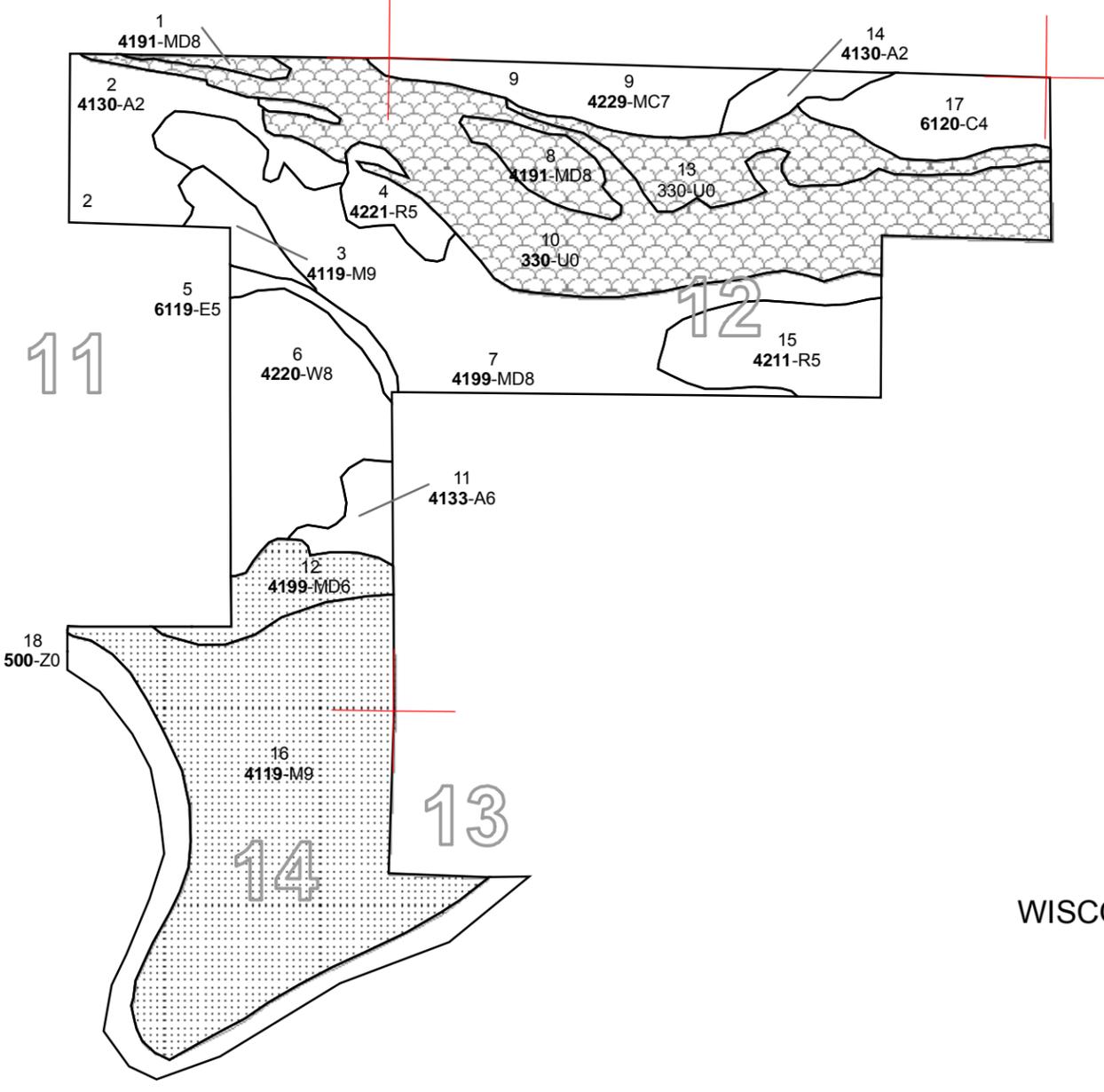
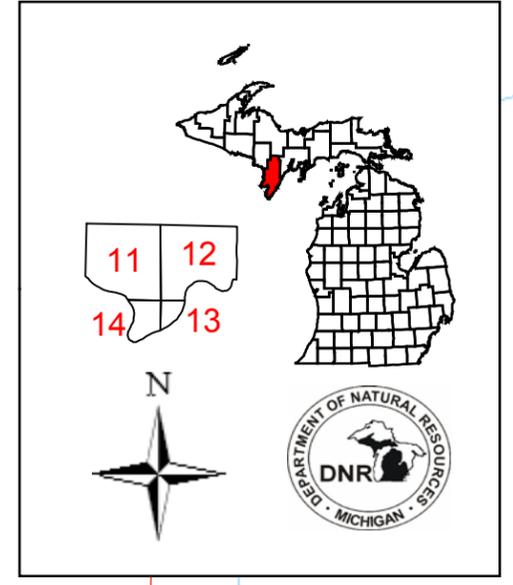
- 330 - Low-Density Trees
- 500 - Water



Compartment 31  
 T34N, R29W, Sec. 11-14  
 County: Menominee  
 Unit: Escanaba  
 YOE: 2013  
 Acres: 602 GIS Calculated  
 Stand Examiner: Joe Durbin  
 Map Revised: 7/26/2011  
 Map Phase: Pre-Review

### Dedicated & Proposed Special Conservation Area Map

**Stand #**  
 23  
**Stocking Density**  
 (4120) - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**



**Legend**

- Miris Corners
- Remonumented Section Corners
- Stand Boundaries
- Proposed Special Conservation Areas
  - SCA - Special Conservation Area
  - SCA Removal
- Dedicated Special Conservation Areas
- Cold Water Streams
- Forest Stands
  - Level 3
    - 411 - Northern Hardwood
    - 413 - Aspen Types
    - 419 - Mixed Upland Deciduous
    - 421 - Planted Pines
    - 422 - Natural Pines
    - 611 - Lowland Deciduous Forest
    - 612 - Lowland Coniferous Forest
- Non-Forest Stands
  - Level 3
    - 330 - Low-Density Trees
    - 500 - Water

WISCONSIN



87:52:0"W 87:51:0"W 87:50:0"W 87:49:0"W 87:48:0"W

45:22:0"N

45:21:0"N

45:22:0"N

45:21:0"N