



Shingleton Forest Management Unit
Compartment Review Presentation
Compartment #174 **Entry Year: 2014**
Compartment Acreage: 1418 **County: Alger**

Revision Date: 08/17/12

Stand Examiner: Jesse Bramer

Legal Description: T48N R17W Section 31, T47N R17W Section 4-8

RMU (if applicable): This compartment is located within the Pictured Rocks Buffer Management Area.

Management Goals: Provide for the protection, integrated management, and responsible use of a healthy, productive, forest and mineral resource base for the social, recreational, environmental, and economic benefit of the people of the State of Michigan.

Soil and Topography: Rolling except for the steep ridges in section 31. The area contains high quality hardwood soils.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Pictured Rocks National Lake Shore is to the north. There is Forest Land Group to the east along with some other private property.

Unique, Natural Features: The compartment contains the West Branch and the main branch of the Mosquito River.

Archeological, Historical, and Cultural Features: There is a known site in Section 8.

Special Management Designations or Considerations: This Compartment is within the dedicated Pictured Rocks National Lakeshore Buffer.

Watershed and Fisheries Considerations: Fisheries Values Good. This compartment contains the Mosquito River which is a coldwater stream and supports an excellent native brook trout fishery. A 200 feet no-clearcut buffer should be maintained adjacent to the Mosquito River. A 50 feet no-cut buffer should be maintained as well (okay to selection cut to within 50 feet of river).

Wildlife Habitat Considerations: This compartment is located in the Grand Marias Sandy End Moraine Outwash sub-subsection. The average growing season is approximately 120 days. The extreme winter temperature generally reaches approximately -35° F. Snowfall in this compartment averages 200 inches or more annually. The compartment falls within the Pictured Rocks Buffer Management Area which highlights the following Featured Species: American marten, Blackburnian warbler, northern goshawk and pileated woodpecker. General Land Office (GLO) Surveyor notes show sugar maple and beech were the dominant tree species on the uplands in this compartment. Hemlock, yellow birch and balsam fir were mentioned in about half the locations while white birch, ironwood, and elm were less abundant. Tamarack, spruce and white pine were lightly scattered with the area. Lowlands were dominated by cedar but also contained tamarack, spruce, fir, alder and black ash. Windthrow and beaver ponding were likely the major forms of natural disturbance within the compartment. Current forests appear to be similar in species composition to pre-settlement conditions. Sugar maple dominates the upland and cedar, spruce and fir occupy the lowlands.

Wildlife habitat objectives are primarily associated with maintaining within and between stand structural and species diversity associated with northern hardwood forests. Gray wolves and moose (Michigan special concern) utilize the compartment, but no rare species have actually been recorded. Other wildlife species of interest that may utilize this compartment include eastern newt, blue-spotted salamander, great-crested flycatcher, broad-winged hawk, masked shrew and eastern chipmunk

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of end moraine of medium-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Ordovician Prairie du Chien (PdC) and the Cambrian Trempealeau Formation subcrop below the glacial drift. The PdC and Trempealeau could be used for stone. The nearest gravel pit is several miles to the south, but there should be potential in the compartment. There is no commercial oil and gas production in the UP.

Vehicle Access: Poor at times due to heavy soils. Access to T48N R17W Section 31 and T47N R17W Section 6 can be difficult due to wet soils, streams, and blockades.

Survey Needs: Survey corners and boundary lines should be established, especially adjacent to Forest Land Group property. Confirm boundaries adjacent to Pictured Rocks National Lakeshore.

Recreational Facilities and Opportunities: Deer hunting, trapping, fishing, hiking, and bird watching.

Fire Protection: Wildfire is not a major concern here due to the forest cover type and soils.

Additional Compartment Information: Most of the hardwood stands are of high quality.

➤ **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
	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	
Cedar	0	0	0	0	0	0	0	0	0	0	89	0	0	0	89
Low-Density Trees	17	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Lowland Conifers	0	0	32	17	3	0	0	10	35	0	3	0	0	0	100
Lowland Deciduous	0	0	8	16	35	16	0	17	0	0	13	0	0	21	126
Lowland Mixed Forest	0	0	0	9	6	14	0	0	0	0	0	0	0	0	29
Lowland Shrub	45	0	0	0	0	0	0	0	0	0	0	0	0	0	45
Mixed Upland Deciduous	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
Northern Hardwood	0	0	0	0	0	103	871	0	0	0	0	0	0	0	974
Treed Bog	26	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Water	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Total	95	0	40	41	45	133	877	27	35	0	105	0	0	21	1418



Table 2 – Proposed Treatment Summaries

Shingleton Mgt. Unit
Year of Entry 2014

Compartment 174
Total Compartment Acres: 1418

Acres by Treatment Type

Commercial Harvest - 386	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
Northern Hardwood	0	379	0	0	0	8	386	
Total	0	379	0	0	0	8	386	



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
9	41174009-Cut	60.0	4119 - Mixed Northern Hardwoods	High Density Pole	54	81-110	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
<u>Prescription</u> Treatment= Single tree harvest this stand retaining approximately 80 BA. Maintain the species diversity. Create regeneration openings <u>Specs:</u> throughout. Long term MO= Create opportunities for and enhance existing stand regeneration. Retention= Retain wildlife trees, seed trees, and species diversity. Reserve hemlock, cedar, and oak.										
<u>Other</u> The southern part of this stand was under contract TS # 027-04 Mosquito East around 2006 but was never completed. There is old orange and <u>Comments:</u> red marking paint still visible. Access roads leading to the stand from Chapel Road are in place, but blocked off and are in poor condition.										
<u>Next Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
10	41174010-Cut	39.1	4111 - S.Maple, Hard Mast Association	High Density Pole	60	111-140	Harvest	Single Tree Selection	4111 - S.Maple, Hard Mast Association	Cmpt. Review Proposal
<u>Prescription</u> Treatment= Single tree harvest this stand retaining approximately 80 BA. Maintain the species diversity. Create regeneration openings <u>Specs:</u> throughout. Long term MO= Create opportunities for and enhance existing stand regeneration. Retention= Retain wildlife trees, seed trees, and species diversity. Reserve hemlock, cedar, and oak.										
<u>Other</u> Access roads leading to the stand from Chapel Road are in place, but blocked off and are in poor condition. <u>Comments:</u>										
<u>Next Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
18	41174018-Cut	51.2	4112 - Maple, Beech, Cherry Association	High Density Pole	60	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<u>Prescription</u> Treatment= Single tree harvest this stand retaining approximately 80 BA. Maintain the species diversity. Create regeneration openings <u>Specs:</u> throughout. Long term MO= Create opportunities for and enhance existing stand regeneration. Retention= Retain wildlife trees, seed trees, and species diversity. Reserve hemlock, cedar, and oak.										
<u>Other</u> There is old orange and red marking paint in the western portion of this stand. Parts of this stand was under contract TS # 027-04 Mosquito East <u>Comments:</u> around 2006, but was never completed.										
<u>Next Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
20	41174020-Cut	7.7	4112 - Maple, Beech, Cherry Association	High Density Pole	60	81-110	Harvest	Other - Specify in Comments	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<u>Prescription</u> Treatment=> Remove any beech trees present that are infected by BBD (Beech Bark Disease] and any other merchantable tree species needed <u>Specs:</u> for access. Do not harvest any cedar, hemlock, or oak that may be present. Long term MO=> Create opportunities for and enhance existing stand regeneration. Retention= Retain wildlife trees, seed trees, and species diversity. Reserve hemlock, cedar, and oak.										
<u>Other</u> In the event that beech volumes are low, additional tree species may be marked. <u>Comments:</u>										
<u>Next Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
37 41174037-Cut	62.2	4110 - Sugar Maple Association	High Density Pole	65	81-110	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal

Prescription Treatment= Single tree harvest this stand retaining approximately 80 BA. Maintain the species diversity. Create regeneration openings throughout.
Specs: Long term MO= Create opportunities for and enhance existing stand regeneration.
 Retention= Retain wildlife trees, seed trees, and species diversity. Reserve hemlock, cedar, and oak.

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2014

39 41174039-Cut	166.0	4110 - Sugar Maple Association	High Density Log	60	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
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Prescription Treatment= Single tree harvest this stand retaining approximately 80 BA. Maintain the species diversity. Create regeneration openings throughout.
Specs: Long term MO= Create opportunities for and enhance existing stand regeneration.
 Retention= Retain wildlife trees, seed trees, and species diversity. Reserve hemlock, cedar, and oak.

Other Comments: Aesthetics are part of the management area objectives, and this stand occurs along the Chapel Road which receives a lot of recreational traffic during the warmer seasons. Mark for aesthetics near the Chapel Road with other silvicultural objectives in mind.

Next Steps:

Proposed Start Date: 10/01/2014

**Total Treatment
Acreage Proposed: 386.3**

Table 4 -- Treatments Prescribed with a Limiting Factor



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

Prescription Specs:

Other Comment:

Next Steps:

Proposed Start Date: #Error

Limiting Factor and No Treatment Reason

Total Treatment Acreage Proposed: 0

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

Year of Entry: 2014



Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
41009014-Cut1	5.2	6120 - Lowland Cedar	High Density Pole	141		Harvest	Patch or Strip Clearcut	6120 - Lowland Cedar	Cmpt. Review Proposal - Incomplete

Prescription patch cut app. 5 acres, determined at time of prep
Specs:

Other Comments:

Next Steps: Monitor according to work instructions.

Proposed Start Date: 10/01/2011

41044_OutOfY OE-Cut	0.9					Harvest	Crown Thinning	42210 - Natural Red Pine	Cmpt. Review Proposal - Incomplete
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Prescription Mark red pine and white pine to 80 sq.ft. where densities are high enough. Cut all other species except hemlock, oak, and cedar.
Specs:

Other Comments: Retention will be a portion of the red pine and white pine trees remaining.

Next Steps: Possible regeneration harvest next year of entry.

Proposed Start Date: 10/01/2013

41172002-Cut	4.4	4112 - Maple, Beech, Cherry Association	High Density Pole	49		Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
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Prescription Treatment=Thin stand down to 80 BA on average while putting in regen gaps to promote species diversity and Sugar Maple. Put stand up with adjacent hardwood in comp 169 in 2014.
Specs: MO=Un-even aged hardwoods with quality Sugar Maple stems
Retention=Residual BA

Other Comments:

Next Steps: Natural regen survey to follow harvest during the next inventory cycle.

Proposed Start Date: 10/01/2014

**Total Treatment
Acreage Proposed: 10.5**



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
3	4191 - Mixed Upland Deciduous with Conifer	High Density Log	5.1	62	1-50	This is a hardwood dominated stand along a tributary of the Mosquito River. This stand acts as a buffer and contains a variety of tree species and slight changes of topography.
4	4112 - Maple, Beech, Cherry Association	High Density Log	45.0	65	51-80	This stand was single tree harvested under the contract TS# 41-026-04-01, Mosquito West from 2005-2009. The basal area within this stand is variable.
5	6139 - Mixed Lowland Forest	High Density Pole	6.3	45	1-50	This is a lowland stand of cedar, fir, ash, and spruce with some birch and maple trees present.
6	4115 - Y.Birch, Hemlock NH	High Density Log	88.0	65	51-80	This stand was single tree harvested under the contract TS # 41-026-04-01, Mosquito West from 2005-2009. The basal area is variable within this stand.
7	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density	16.8	35		This is part of the riparian zone of the Mosquito River. It contains a mixture of lowland conifers and deciduous trees with a high concentration of sapling to pole sized balsam fir.
9	4119 - Mixed Northern Hardwoods	High Density Pole	60.0	54	81-110	This stand contains lower quality trees in the pole class. There is a high density of balsam fir in the understory. The southern part of this stand was under contract TS # 027-04 Mosquito East around 2006 but was never completed. There is old orange and red marking paint still visible.
10	4111 - S.Maple, Hard Mast Association	High Density Pole	39.1	60	111-140	This stand contains mostly pole to sawlog sized trees. Approximately around 1987 this stand was selectively thinned.
11	6124 - Lowland Spruce- Fir	Medium Density	31.7	25		This is a lowland area with high concentrations of balsam fir, cedar, and spruce. There are small drainages that flow from this stand and eventually into the Mosquito River. This stand was harvested in the late 1980's where they cut cedar along with everything else, but they did leave patches of mature cedar. Natural regeneration is coming back very well.
13	6113 - Lowland Maple	High Density Pole	26.6	45	51-80	There are several drainages that flow from this stand to the Mosquito River. Lowland tree species dominate here with low quality timber. A hemlock patch occurs in the northeastern part of this stand, and it appears that the northwest portion of the stand was thinned more heavily around 1987 than the rest of the stand.
14	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	16.2	50	1-50	Low wet area with a mix of low quality hardwoods with lowland conifer. Portions of this stand were included in the contract TS # 027-04 Mosquito East around 2006.
15	6139 - Mixed Lowland Forest	Medium Density Pole	14.3	51	51-80	A beaver activity has affected the northern portion of this stand resulting in tree mortality and younger regeneration. There are many springs throughout this area with large aspen declining as well.
16	6124 - Lowland Spruce- Fir	High Density Pole	2.9	46	51-80	Fir and spruce stand with other lowland tree species. There is cedar present which contains much cedar regeneration. Also, there is a small aspen clone in the southwest part of the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
17	4112 - Maple, Beech, Cherry Association	High Density Log	21.7	65	51-80	The stand was single tree harvested under the contract TS # 41-026-04-01, Mosquito West between 2005-2009. The northern portion of this stand contains more pole sized tree and a greater presence of red maple. The basal area within this stand fluctuates as well.
18	4112 - Maple, Beech, Cherry Association	High Density Pole	51.2	60	111-140	Stand is mostly sugar maple and red maple, but contains a well component of beech and yellow birch. Balsam fir is thick in the understory in some places and there is old orange and red marking paint in the western portion of this stand. Parts of this stand was under contract TS # 027-04 Mosquito East around 2006, but was never completed.
19	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Sapling	20.7	Uneven Age		This stand resides by the mosquito river and occurs on low ground that may have been the river's floodplain at one time. Now it is mostly tag alder with scattered mature trees.
20	4112 - Maple, Beech, Cherry Association	High Density Pole	7.7	60	81-110	This stand was thinned in the past and contains a lot of advanced regeneration. There is a large component of mature beech with BBD in this stand.
21	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	17.1	73	51-80	Low wet area that contains low quality trees with a few merchantable ones. This is a transition zone between higher ground in the west to low ground in the east.
22	4111 - S.Maple, Hard Mast Association	High Density Pole	147.0	60	81-110	This stand was thinned around 2006 under contract TS # 027-04 Mosquito East. In the very NW corner of the stand there is a Beech Bark Disease plot, which was protected from being harvested during the sale.
23	6120 - Lowland Cedar	High Density Pole	26.2	100	111-140	This is a lowland stand composed mainly of large diameter cedar trees.
24	4112 - Maple, Beech, Cherry Association	High Density Pole	35.6	58	81-110	Stand was thinned under contract TS # 027-04 Mosquito East around 2006. The basal area near Chapel Road was kept higher.
26	6130 - Fir, Aspen, Maple	Medium Density	8.5	30		A creek and drainage make up this stand holding lowland tree species within it.
27	6128 - Lowland Coniferous, Mixed Deciduous	High Density Sapling	35.4	82		This stand is on low, wet ground which contains stunted, poor quality trees. There is larger diameter cedar in patches scattered throughout the stand along with patches of tag alder, sapling sized hardwood species, and spruce/fir.
29	6118 - Lowland Deciduous with Cedar	High Density Pole	12.5	107	1-50	This is a transition zone between low and slightly higher ground with hardwoods and lowland species present.
30	6120 - Lowland Cedar	High Density Log	24.8	107	111-140	
31	4115 - Y.Birch, Hemlock NH	High Density Log	49.0	65	81-110	This stand contains a variety of tree species along its edges. The basal area varies throughout the stand too.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	4112 - Maple, Beech, Cherry Association	High Density Log	75.5	65	51-80	This stand was single tree harvested under the contract TS# 041-04, 639 Hardwood around 2007.
33	4112 - Maple, Beech, Cherry Association	High Density Log	48.4	64	81-110	This stand was single tree harvested under the contract TS# 041-04, 639 Hardwood around 2007.
36	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	15.7	35	1-50	This stand is within the riparian zone of the Mosquito River and acts as a buffer.
37	4110 - Sugar Maple Association	High Density Pole	62.2	65	81-110	The southern portion of this stand contains mostly sugar maple and then black cherry increases in abundance further north. Tree size and quality is lower in the northern portion also. Overall tree density is variable too.
38	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	3.3	100	81-110	
39	4110 - Sugar Maple Association	High Density Log	206.3	60	111-140	This stand was single tree harvested around the late 1980'S. It consists of variable basal area and tree form. Larger diameter trees were left along the Chapel Road and tree spacing is wider. Tree densities become higher further from the road.
41	6120 - Lowland Cedar	High Density Pole	20.0	102	81-110	This stand contains several wet drainages and various tree sizes and densities. The northern portion of this stand experiences some tree mortality.
43	6120 - Lowland Cedar	High Density Pole	18.0	102	111-140	This stand is mostly high density cedar in the pole-log size class. There is a greater presence of fir, spruce, and aspen on the outside of this stand. This area appears to be a transitional area between this cedar stand and the adjacent hardwood stands.
44	4119 - Mixed Northern Hardwoods	High Density Pole	7.2	57	81-110	Access may be a problem with this stand. This stand contains a mix of poor quality black cherry trees and maple. There are scattered large aspen trees present as well. The stand is surrounded by lowland cedar.
45	4110 - Sugar Maple Association	High Density Pole	20.4	65	81-110	This stand was single tree harvested under the contract TS# 041-04, 639 Hardwood.
46	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	8.8	40		This stand may have treatment limiting factors such as water quality/bmps due to wet ground. There are many water seeps that are inhabited by many lowland tree species. Tree size is sapling-pole and form is poor.
47	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	8.2	24		This is a sapling sized aspen clone.
48	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	9.9	72	51-80	White spruce, cedar, and paper birch make up the majority for tree species.

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Shingleton Mgt. Unit

5 – Forested Stands

Compartment: 174
Year of Entry: 2014



S t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
50	4112 - Maple, Beech, Cherry Association	High Density Pole	9.9	60	51-80	This stand was single tree harvested under the contract TS # 041--04, 639 Hardwood around 2005. This stand has some small hills.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	3303 - Mixed Low Density Trees	0.4	N/A	Unspecified	
2	6229 - Mixed lowland shrub	0.5	N/A	Unspecified	
8	50 - Water	0.8	N/A	Unspecified	
12	6220 - Alder/willow	22.3	N/A	Unspecified	
25	622 - Lowland Shrub	3.2	N/A	Unspecified	
28	6224 - Treed Bog	26.0	N/A	Unspecified	
34	50 - Water	5.8	N/A	Unspecified	
35	6229 - Mixed lowland shrub	18.6	N/A	Unspecified	
40	330 - Low-Density Trees	2.5	N/A	Unspecified	
42	330 - Low-Density Trees	10.5	N/A	Unspecified	
49	330 - Low-Density Trees	4.1	N/A	Unspecified	



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



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.

Conservation Area	Type	Description
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	Contiguous Resource Area	These are DNR-owned lands that are directly contiguous to adjacent ownerships, where there is potential for coordination of landscape-level management for similar purposes. Such lands include distinct but contiguous DNR-owned lands, such as State Parks, State Forest and Wildlife Areas. Such lands also include DNR-owned lands that are adjacent to other ownerships such as Federal Parks, National Forest wilderness areas, National Wildlife Refuges, conservancy lands, and private lands such as the Huron Mountain Club.
SCA	Visual Management Area	An area of general social appreciation that is managed to recognize and preserve a particular visual value. Examples of these areas include scenic vistas, scenic or natural beauty roads, and lakeshore areas.

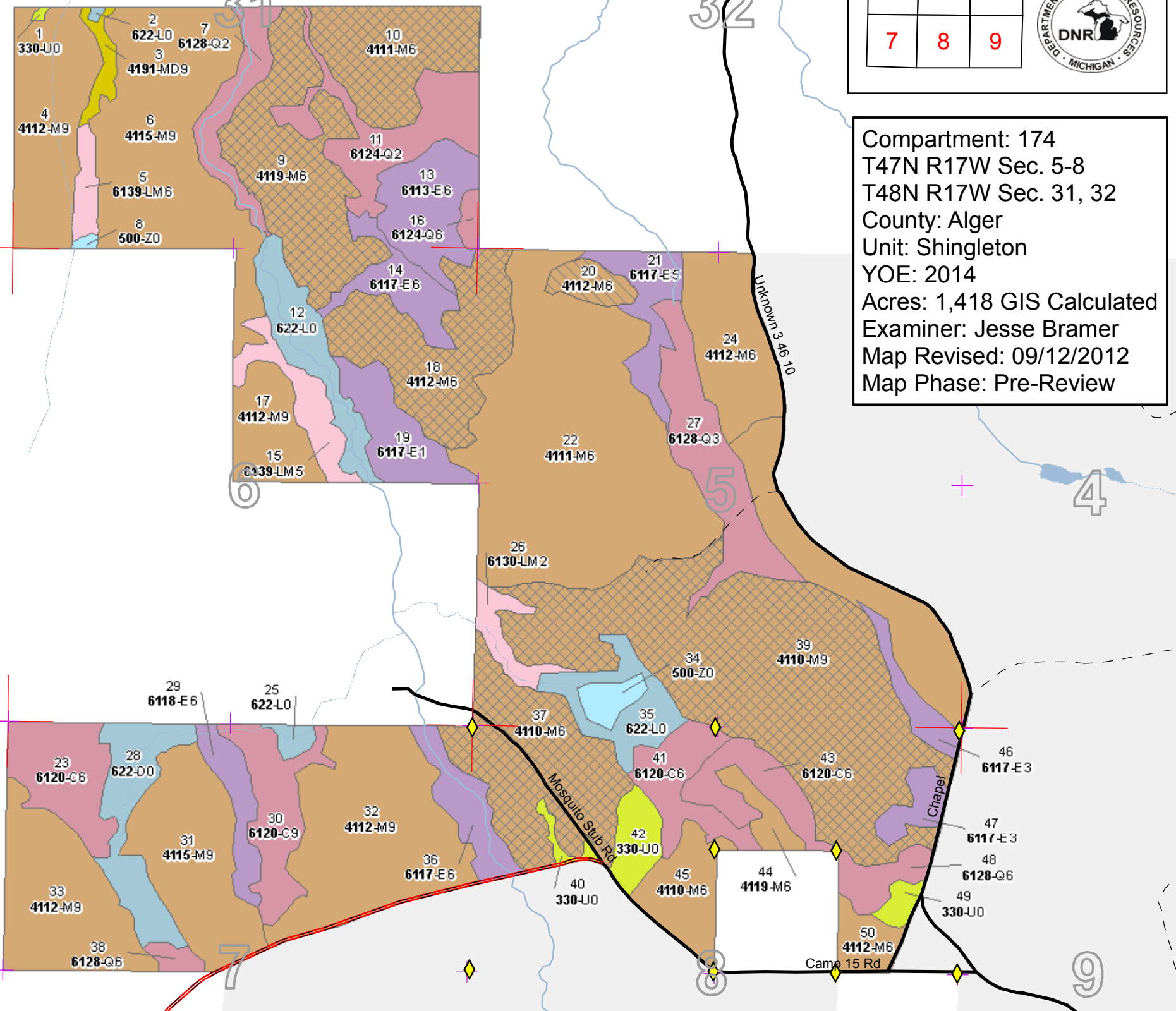
ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Cover Type & Treatment Map

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

31	32
6	5
7	8

Compartment: 174
 T47N R17W Sec. 5-8
 T48N R17W Sec. 31, 32
 County: Alger
 Unit: Shingleton
 YOE: 2014
 Acres: 1,418 GIS Calculated
 Examiner: Jesse Bramer
 Map Revised: 09/12/2012
 Map Phase: Pre-Review



Legend

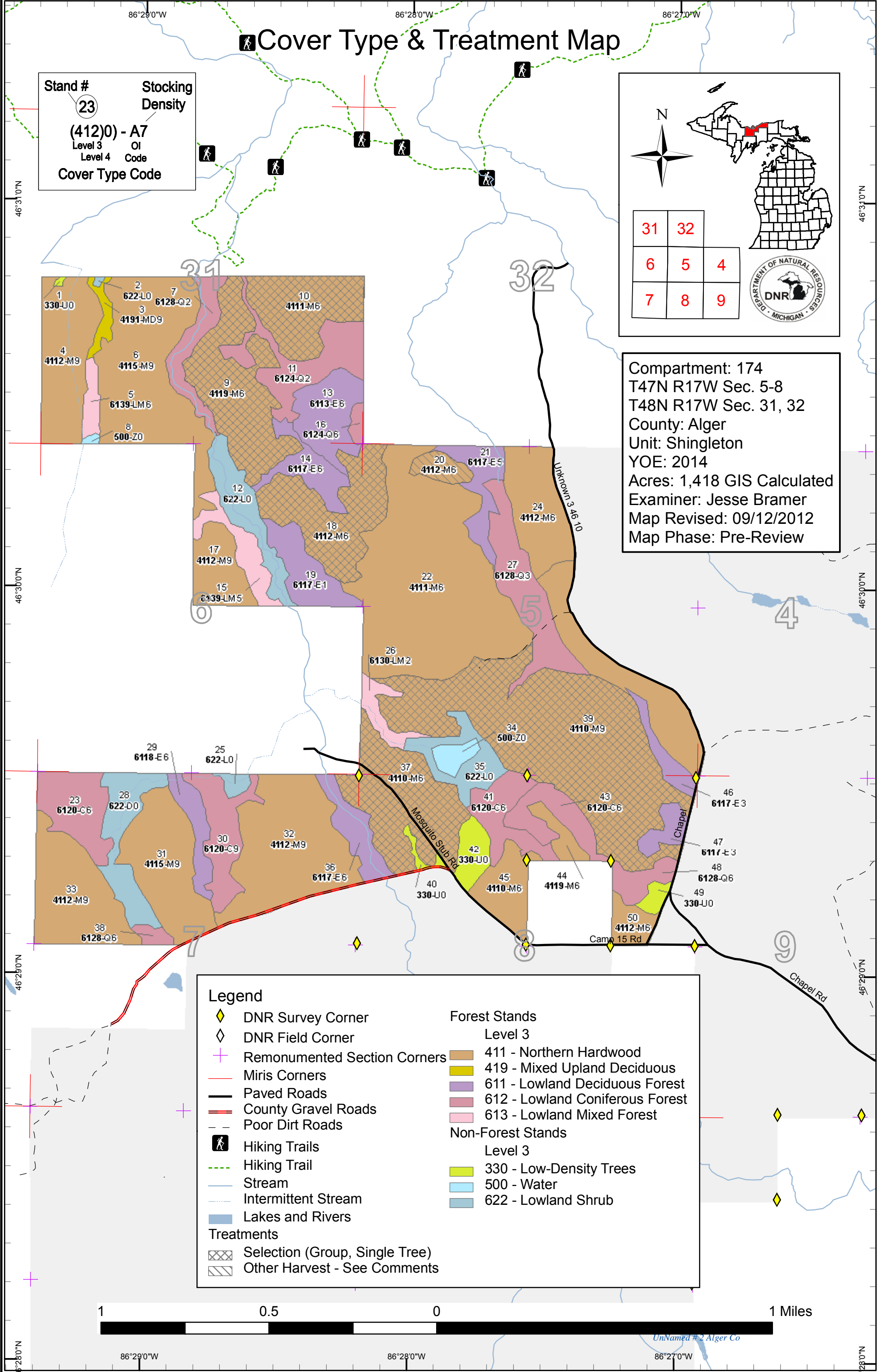
◆ DNR Survey Corner	◆ DNR Field Corner	+	+	—	—	—	🚶	⋯	—	⋯	🌊
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Forest Stands

Level 3	411 - Northern Hardwood
	419 - Mixed Upland Deciduous
	611 - Lowland Deciduous Forest
	612 - Lowland Coniferous Forest
	613 - Lowland Mixed Forest

Non-Forest Stands

Level 3	330 - Low-Density Trees
	500 - Water
	622 - Lowland Shrub



Stand Boundary Map

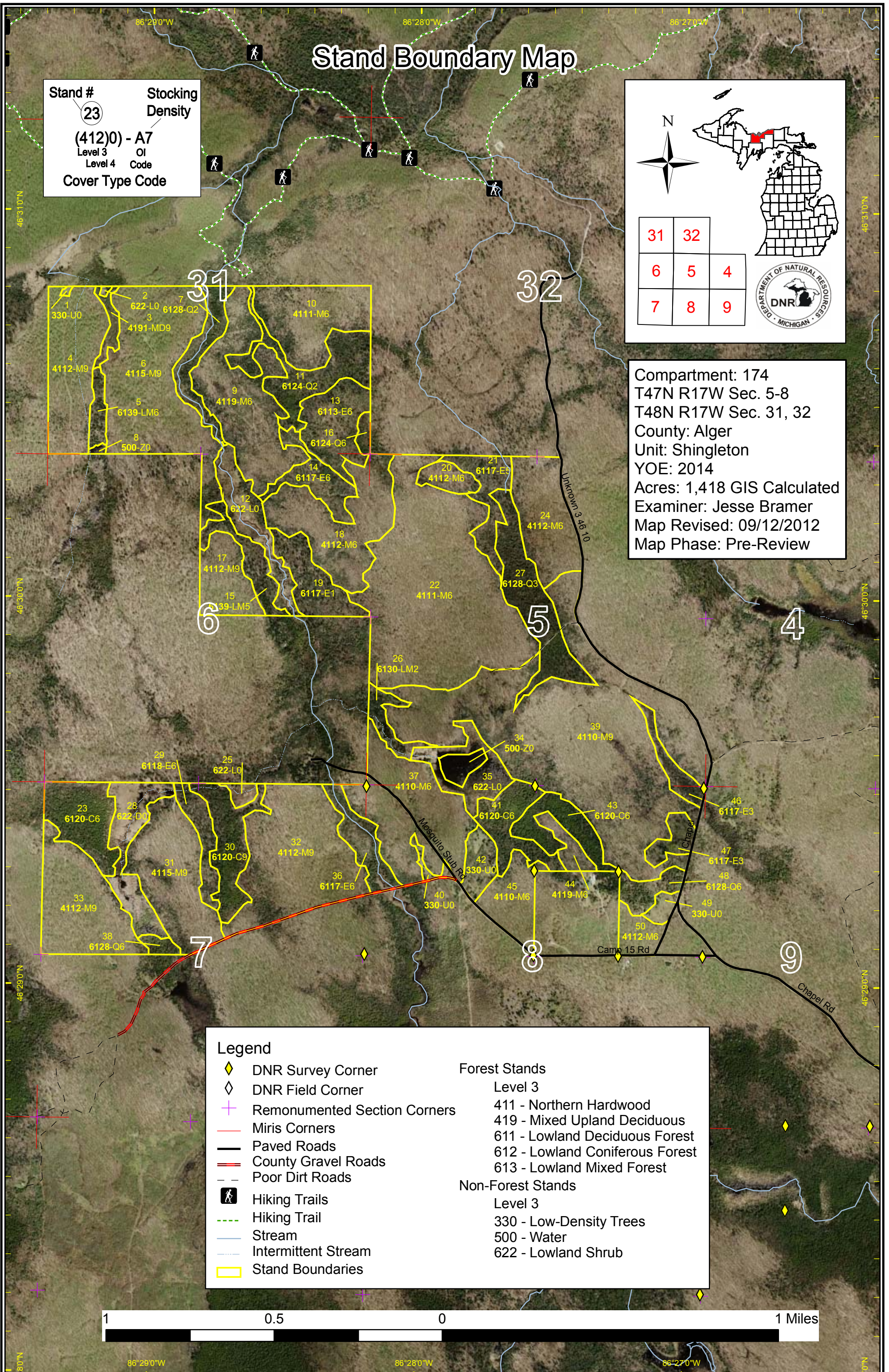
Stand #
23
(412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

31	32
6	5
7	9

Compartment: 174
 T47N R17W Sec. 5-8
 T48N R17W Sec. 31, 32
 County: Alger
 Unit: Shingleton
 YOE: 2014
 Acres: 1,418 GIS Calculated
 Examiner: Jesse Bramer
 Map Revised: 09/12/2012
 Map Phase: Pre-Review

Legend

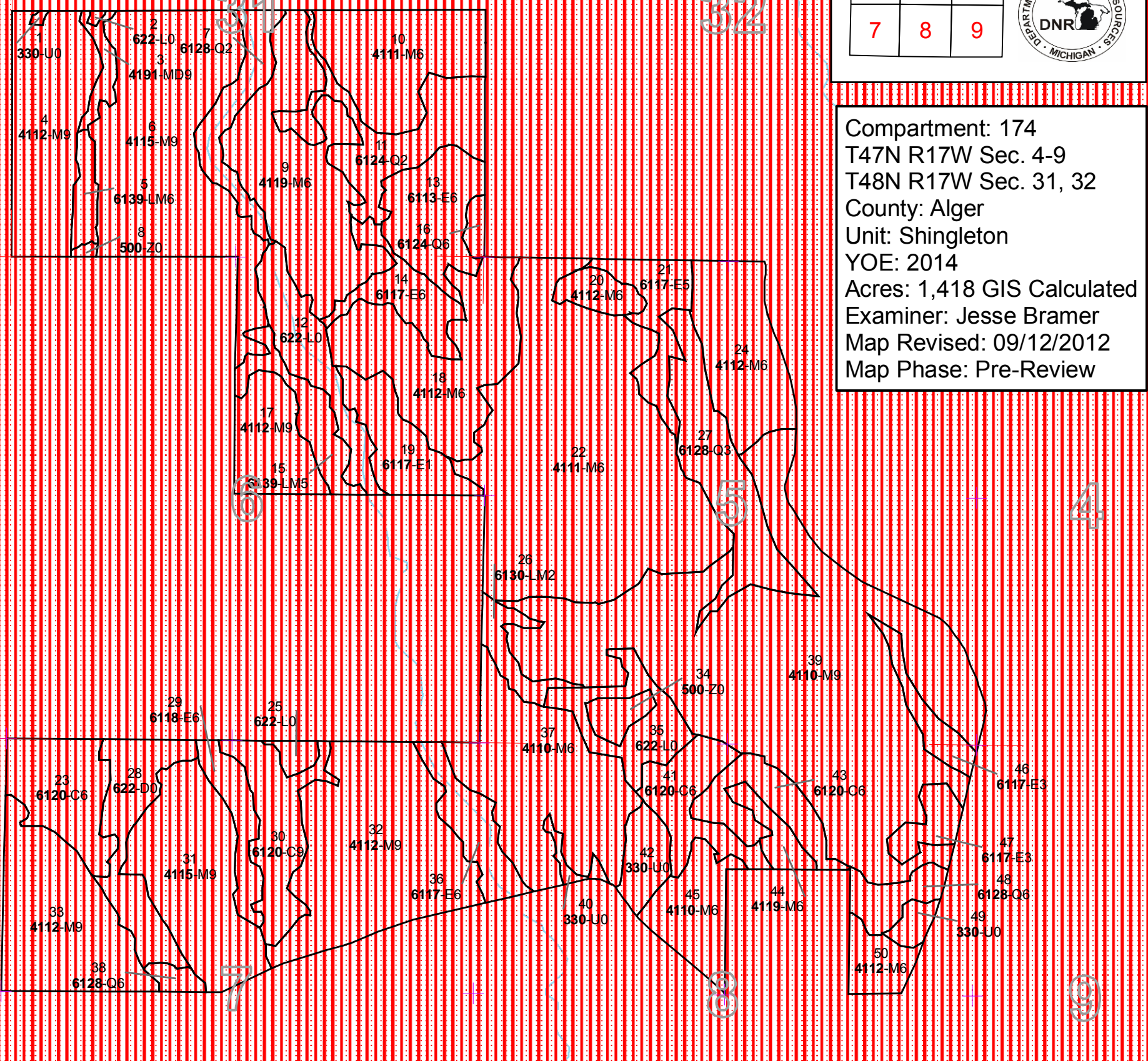
◆ DNR Survey Corner	Forest Stands
◇ DNR Field Corner	Level 3
✚ Remonumented Section Corners	411 - Northern Hardwood
— Miris Corners	419 - Mixed Upland Deciduous
— Paved Roads	611 - Lowland Deciduous Forest
— County Gravel Roads	612 - Lowland Coniferous Forest
— Poor Dirt Roads	613 - Lowland Mixed Forest
🚶 Hiking Trails	Non-Forest Stands
⋯ Hiking Trail	Level 3
— Stream	330 - Low-Density Trees
⋯ Intermittent Stream	500 - Water
▭ Stand Boundaries	622 - Lowland Shrub



Dedicated & Proposed Special Conservation Area Map

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

31	32	
6	5	4
7	8	9



Compartment: 174
 T47N R17W Sec. 4-9
 T48N R17W Sec. 31, 32
 County: Alger
 Unit: Shingleton
 YOE: 2014
 Acres: 1,418 GIS Calculated
 Examiner: Jesse Bramer
 Map Revised: 09/12/2012
 Map Phase: Pre-Review

Legend

- + Remonumented Section Corners Non-Forest Stands
- Miris Corners
- Stand Boundaries
- Forest Stands
 - Level 3
 - 411 - Northern Hardwood
 - 419 - Mixed Upland Deciduous
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
- Dedicated Special Conservation Areas
 - Visual Management Areas (Red vertical lines)
 - Contiguous Resource Areas (Red dotted lines)
 - Cold Water Streams (Blue line)
- Level 3
 - 330 - Low-Density Trees
 - 500 - Water
 - 622 - Lowland Shrub



86°29'0"W 86°28'0"W 86°27'0"W