



Shingleton Forest Management Unit Compartment Review Presentation

Compartment # 49

Entry Year: 2014

Compartment Acreage: 3578

County: Schoolcraft

Revision Date: 8/10/2012

Stand Examiner: Tori Irving

Legal Description: T43N R14W Sections 4, 5, 6, 7, 8, 9

RMU (if applicable): Compartment 49 lies within Seney Manistique Swamp Management Area.

Management Goals: Timber, wildlife, recreation, and fisheries are the main uses of this area. The goal is to manage for all uses simultaneously and to provide, enhance and perpetuate their uses through proper management. Proposed forest treatments will help ensure the sustainability of the forest resource and continue to enhance the quality of the wildlife habitat.

Soil and Topography: The entire compartment lies within the Channel Fens South Land Type Association, the soils in the compartment are well drained sands and the topography is a matrix of ridges surrounded by marshes. Soil types include: Markey Muck Peat, Nechonish, Kinross, Wainola Complex, Histols and Aquent, Rousseau, Neconish, Finch Complex, and AuGres, Deford Complex.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment and the surrounding land is fairly contiguous state ownership. There are a few private parcels within the compartment boundary. Most of the parcels are used seasonally. The Seney Wildlife Refuge is along the northern border of the compartment. The snowmobile trails runs through the west side of the compartment on the Highwater Truck Trail.

Unique, Natural Features: The area is currently under review by the Michigan Natural Features Inventory.

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations: None.

Watershed and Fisheries Considerations: : Fisheries Concerns In General: Streams are classified from First Quality Cold Water (FQCW) down to Second Quality Warm Water (SQWW). In this area, the FQCW means an excellent trout fishery, one that is supplemented by a Fisheries Division annual stocking program. These waters are generally the famous ones, but also include somewhat smaller waters that are capable of supporting the fish population density necessary to provide a superior angling experience. SQCW implies a cold stream that supports a natural trout population, but is limited by either physical size or lack of spawning/foraging habitat. Its limitations mean that it will never support a heavy angling pressure and harvest, so Fisheries Division does not publicize the water. Local anglers, however, know what the streams support, and do fish them quite a bit. In-stream habitat is usually in the form of large woody debris, or downed trees. Fish need them because they provide protection from overhead predators and because they force water currents to scour holes under and around them. The holes provide more water volume in the stream, keeping it cooler, as well as giving the fish more volume to "hide" in. The woody structure also forces more eddy currents, breaking the "solid" water flow so that fish can get out of the current to rest.

First Quality Warm Waters, (FQWW) are large, productive waters capable of supporting a good fishery for either warm-water species or cool-water species. In the Upper Peninsula, the designation generally applies to walleye, pike, musky or smallmouth bass waters. SQWW means small, possibly stagnant, warm streams that produce little to no actual fishery. Although small, their warm temperatures and generally high nutrient levels imply generally a higher productivity than the more “fishable” streams. Their value is attained from the production of forage that migrates downstream into areas of either cold-water or warm-water sports fish populations. For that reason, they are NOT useless waters, and they should be protected somewhat for the aquatic invertebrate and fish forage that they produce. Beaver populations in these streams could be a benefit, as their dams will increase productivity as well as inhibit sand bedload migration. Fisheries Values Poor. The Duck Creek system is classified SQWW. We know little about these small, warm water creeks. However, BMP protection from sand bedload is still a high priority.

Wildlife Habitat Considerations: This compartment lies within the Seney Sand Lake Plain ecological sub-subsection. The growing season in this area is less than 100 days with extreme minimum winter temperatures of -46° F. Annual snowfall in this area averages approximately 130 inches. The compartment falls within the Seney Manistique Swamp Management Area which highlights the following Featured Species: Moose, sharp-tailed grouse, snowshoe hare and white-tailed deer. This compartment lies within the marsh/low pine ridge complex. General Land Office (GLO) Surveyor notes show the circa 1850 upland forest contained species such as jack pine, hemlock, white pine, red pine, and birch. Lowland forest included tamarack, spruce, cedar and balsam fir. A large portion of the compartment is open wetland. Windthrow, fire, flooding, and beaver ponding all likely played major roles in the natural disturbance regime. Current forests conditions in the eastern portion of the compartment are similar to circa 1850 conditions. In the western portion of the compartment, much of the uplands have shifted from a mixture of jack and red pine to fairly monotypic jack pine. The marsh lands remain relatively unchanged from pre-settlement times. Wildlife habitat objectives in this compartment include maintaining the integrity of the marsh/low pine ridge complex, providing natural functioning systems on the ridges in the eastern portion of the compartment, protecting the Duck Creek corridor, and promoting age class and structural diversity in the upland coniferous community of the western portion of the compartment. Moose (Michigan special concern) and wood turtle (Michigan special concern) utilize the compartment. Other wildlife species of interest that may utilize this compartment include spring peepers, leopard frogs, marsh wren, northern harrier, mink, and water shrew.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Ordovician Stonington Formation and Big Hill Dolomite subcrop below the glacial drift and could be used for stone. The nearest gravel pit is 4 miles to the south and potential appears to be limited. There is a clay pit 8 miles to the west. There is no commercial oil and gas production in the UP.

Vehicle Access: Vehicle access to this compartment is limited. The west side of the compartment can be accessed via the Highwater Truck Trail. The east side of the compartment has very limited access due to numerous small creeks and drainage areas.

Survey Needs: Corners will be needed in Section 6 in order to conduct timber sale preparation and harvesting operations.

Recreational Facilities and Opportunities: The Highwater Truck Trail is also Snowmobile Trail Number 2 in the winter. There are several other recreational opportunities including, but not limited to, hunting, fishing, horseback riding, and ORV.

Fire Protection: This area was historically prone to catastrophic, large-scale fires prior to large-scale fire suppression efforts of the last century; however, suppression efforts in the late seventies could not stop the raging Seney fire that scorched the northeast portion of the compartment. This area can be very wet in the

spring and early summer but due to well-drained soils, the area and subsequently the fuels, can dry out quickly with the right weather. Access to the compartment is poor and response times will be lengthy due to the distance and poor 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**

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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	
Jack Pine	111	0	69	206	0	22	80	74	97	0	0	0	0	0	660
Low-Density Trees	133	0	0	0	0	0	0	0	0	0	0	0	0	0	133
Lowland Conifers	0	0	0	0	0	0	21	0	0	0	0	0	0	0	21
Lowland Mixed Forest	0	0	0	0	0	0	46	0	0	0	0	0	0	0	46
Lowland Shrub	2302	0	0	0	0	0	0	0	0	0	0	0	0	0	2302
Natural Mixed Pines	0	0	0	0	0	0	0	8	0	0	0	0	0	0	8
Red Pine	0	0	0	0	0	13	57	280	0	0	0	0	0	0	350
Water	61	0	0	0	0	0	0	0	0	0	0	0	0	0	61
Total	2606	0	69	206	0	35	204	361	97	0	0	0	0	0	3579



Table 2 – Proposed Treatment Summaries

Shingleton Mgt. Unit
Year of Entry 2014

Compartment 049
Total Compartment Acres: 3579

Acres by Treatment Type

Commercial Harvest - 184	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

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
Jack Pine	184	0	0	0	0	0	184
Total	184	0	0	0	0	0	184



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
S t a n d	41049_OutOfY OE_1-Cut	4.7					Harvest	Single Tree Selection	42290 - Natural Mixed Pine	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Mark red pine and white pine to 30 sq. ft. Create gaps in canopy for regeneration where pine exists. Areas that have thicker young poles can be marked to 80. Cut all other species except hemlock and oak if present. <u>Specs:</u> <u>Other</u> Access to stand is too difficult for continuous thinning. <u>Comments:</u> <u>Next Steps:</u> Regeneration walkthrough during next inventory cycle. Acceptable regeneration includes any species mixture currently found onsite. <u>Proposed Start Date:</u> 10/01/2012										
	41049_OutOfY OE-Cut	14.1					Harvest	Single Tree Selection	42210 - Natural Red Pine	Fld. Tr. Bdy.
<u>Prescription</u> --Adam Petrelius : 01/25/2012 comments: <u>Specs:</u> Cut all species except red pine ,oak, white pine, and hemlock. Red pine and white pine should be marked. Create regeneration holes where available and thin thicker areas of poles. <u>Other</u> See MNFI comments. Winter harvest will be needed due to road conditions into treatment area. Buffer on Walsh Ditch should be placed at the bottom of spoils. Protect existing red pine and white pine regeneration. <u>Comments:</u> <u>Next Steps:</u> Natural regeneration of red pine, jack pine, and white pine is acceptable. Plant red pine if regeneration fails. <u>Proposed Start Date:</u> 10/01/2011										
2	41049002-Cut	96.8	42220 - Natural Jack Pine	High Density Pole	87		Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> Harvest all jack pine. Leave some red pine. <u>Specs:</u> <u>Other</u> This stand was prescribed and during the last entry year. Sale was set up as East Side Duck Sale#41-011-04-01 but was never sold. Stand will require a major road project to access the timber, including three culverts and two bridges. <u>Comments:</u> <u>Next Steps:</u> Acceptable regeneration includes current canopy species. Scarify stand after harvest is complete. If scarification fails, trench and plant jack pine. <u>Proposed Start Date:</u> 10/01/2013										
7	41049007-Cut	52.4	42220 - Natural Jack Pine	High Density Log	73		Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> Harvest all jack pine. Cut red pine if needed for maneuverability. <u>Specs:</u> <u>Other</u> No winter harvesting. <u>Comments:</u> <u>Next Steps:</u> Scarify stand after harvest is complete. If scarification fails, trench and plant jack pine. Acceptable regeneration species includes current canopy species. <u>Proposed Start Date:</u> 10/01/2013										

**Table 3 -- Treatments Prescribed
with No 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
29 41049029-Cut	22.3	6126 - Lowland Jack Pine	High Density Pole	54		Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal

Prescription Harvest all jack pine and leave some red pine.

Specs:

Other Comments: This stand was prescribed and during the last entry year. Sale was set up as East Side Duck Sale#41-011-04-01 but was never sold. Stand will require a major road project to access the timber, including three culverts and two bridges.

Next Steps: Acceptable regeneration includes current canopy species. Scarify stand after harvest is complete. If scarification fails, trench and plant jack pine.

Proposed Start Date: 10/01/2013

46 41049046-Cut	12.8	42220 - Natural Jack Pine	High Density Pole	74		Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal
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Prescription Harvest all jack pine and leave some of the red pine.

Specs:

Other Comments: This stand was prescribed and during the last entry year. Sale was set up as East Side Duck Sale#41-011-04-01 but was never sold. Stand will require a major road project to access the timber, including three culverts and two bridges.

Next Steps: Acceptable regeneration includes current canopy species. Scarify stand after harvest is complete. If scarification fails, trench and plant jack pine.

Proposed Start Date: 10/01/2013

**Total Treatment
Acreage Proposed: 203.1**

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**

Shingleton Mgt. Unit

5 – Forested Stands

Compartment: 049
Year of Entry: 2014

Stand	Shingleton Mgt. Unit		5 – Forested Stands		Compartment: 049 Year of Entry: 2014	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	42220 - Natural Jack Pine	High Density Pole	96.8	87		
5	6126 - Lowland Jack Pine	High Density Sapling	39.0	37		
6	6139 - Mixed Lowland Forest	High Density Pole	45.9	64		
7	42220 - Natural Jack Pine	High Density Log	52.4	73		
9	42210 - Natural Red Pine	High Density Log	4.5	79		
10	6126 - Lowland Jack Pine	High Density Pole	1.9	37		
11	6126 - Lowland Jack Pine	High Density Pole	8.3	37		
12	6126 - Lowland Jack Pine	Medium Density	110.8	8		
13	42210 - Natural Red Pine	High Density Log	4.2	79		
14	42210 - Natural Red Pine	High Density Log	2.4	79		
15	6126 - Lowland Jack Pine	Medium Density	69.2	25		
16	42220 - Natural Jack Pine	High Density Sapling	9.7	37		
17	42210 - Natural Red Pine	High Density Log	12.3	79		
19	42210 - Natural Red Pine	High Density Log	12.7	56	111-140	
21	42210 - Natural Red Pine	High Density Log	4.7	79		
22	42220 - Natural Jack Pine	High Density Sapling	5.7	37		
25	42210 - Natural Red Pine	High Density Log	5.0	68	111-140	
26	42220 - Natural Jack Pine	High Density Log	9.0	79		

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Shingleton Mgt. Unit

5 – Forested Stands

Compartment: 049
Year of Entry: 2014

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
6126 - Lowland Jack Pine	High Density Sapling	53.6	37		
42210 - Natural Red Pine	High Density Log	33.6	68	111-140	
6126 - Lowland Jack Pine	High Density Pole	22.3	54		
6129 - Mixed Coniferous Lowland Forest	High Density Pole	20.6	60		
42210 - Natural Red Pine	High Density Log	5.5	79		
42210 - Natural Red Pine	High Density Log	27.7	79		
42210 - Natural Red Pine	High Density Log	14.2	79		
42210 - Natural Red Pine	High Density Log	18.8	68		
42210 - Natural Red Pine	High Density Log	12.3	79		
42220 - Natural Jack Pine	High Density Pole	80.1	62		
42210 - Natural Red Pine	High Density Log	4.6	79		
42210 - Natural Red Pine	High Density Log	3.2	79		
42210 - Natural Red Pine	High Density Log	13.6	79		
42220 - Natural Jack Pine	High Density Pole	12.8	74		
42220 - Natural Jack Pine	High Density Sapling	87.9	37		
42210 - Natural Red Pine	High Density Log	1.9	79		
42210 - Natural Red Pine	High Density Log	16.8	79		
42210 - Natural Red Pine	High Density Log	6.8	79		

Shingleton Mgt. Unit

5 – Forested Stands

Compartment: 049
Year of Entry: 2014

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
52	42210 - Natural Red Pine	High Density Log	12.4	79		
53	42210 - Natural Red Pine	High Density Log	12.2	79		
55	42210 - Natural Red Pine	High Density Log	2.9	79		
56	42210 - Natural Red Pine	High Density Log	9.3	79		
57	42210 - Natural Red Pine	High Density Log	7.3	79		
58	42210 - Natural Red Pine	High Density Log	10.6	79		
59	42210 - Natural Red Pine	High Density Log	4.5	79		
60	42210 - Natural Red Pine	High Density Log	3.2	79		
61	42210 - Natural Red Pine	High Density Log	3.9	79		
62	42210 - Natural Red Pine	High Density Log	18.1	79		
63	42210 - Natural Red Pine	High Density Log	1.7	79		
64	42210 - Natural Red Pine	High Density Log	3.0	79		
65	42210 - Natural Red Pine	High Density Log	6.3	79		
66	42290 - Natural Mixed Pine	High Density Log	7.7	79		
67	42210 - Natural Red Pine	High Density Log	4.6	79		
68	42210 - Natural Red Pine	High Density Log	1.8	79		
69	42210 - Natural Red Pine	High Density Log	15.7	79		
70	42210 - Natural Red Pine	High Density Log	6.3	79		

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Shingleton Mgt. Unit

5 – Forested Stands

Compartment: 049
Year of Entry: 2014



S t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
71	42210 - Natural Red Pine	High Density Log	20.0	79		
72	42210 - Natural Red Pine	High Density Log	1.3	79		



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	6229 - Mixed lowland shrub	21.8	N/A	Unspecified	
3	622 - Lowland Shrub	53.1	No	Unspecified	East Duck Creek Goes through the middle of the shrub.
4	622 - Lowland Shrub	5.1	No	Unspecified	
8	50 - Water	4.3	No	Unspecified	
18	6229 - Mixed lowland shrub	195.2	No	Unspecified	
20	50 - Water	30.5	No	Unspecified	
23	50 - Water	25.9	No	Unspecified	
24	3302 - Low Density Conifer Trees	113.3	Yes	Jack Pine	
31	3302 - Low Density Conifer Trees	19.3	Natural Regen	Red Pine	Stand was approved for treatment at the 205 review and was treated with Compartment 53 as part of the Frozen Paint Sale. Sale was cut in 2010. Monitor the regeneration.
34	6229 - Mixed lowland shrub	3.4	No	Unspecified	
36	6229 - Mixed lowland shrub	140.0	No	Unspecified	
37	622 - Lowland Shrub	4.5	No	Unspecified	
41	622 - Lowland Shrub	1.9	No	Unspecified	
42	622 - Lowland Shrub	3.5	No	Unspecified	
48	6229 - Mixed lowland shrub	1861.3	No	Unspecified	
54	6229 - Mixed lowland shrub	12.2	No	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
multiple - see	SCA Removal	41049_SCARemoval	2084.9	Area does not meet old growth criteria.



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.

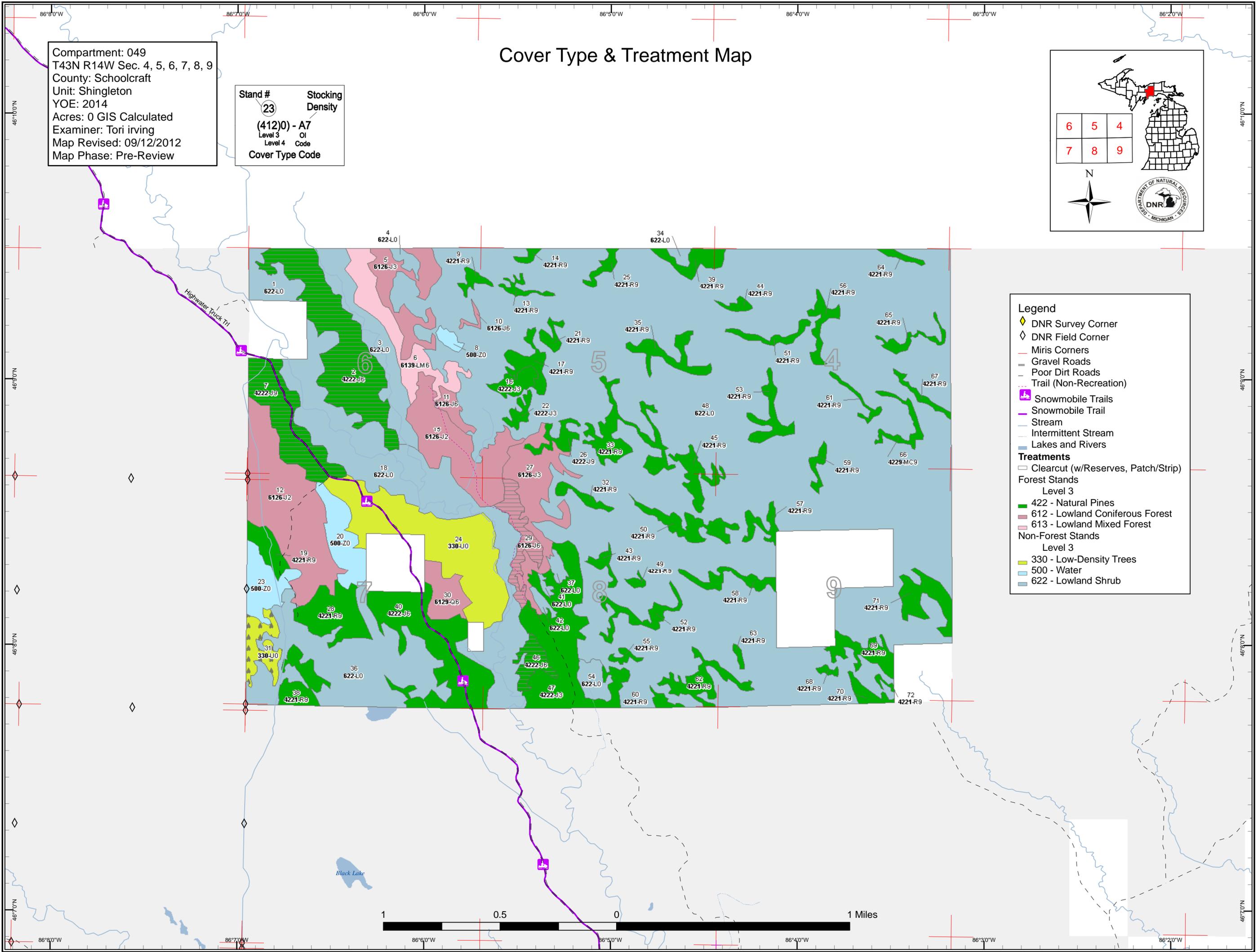
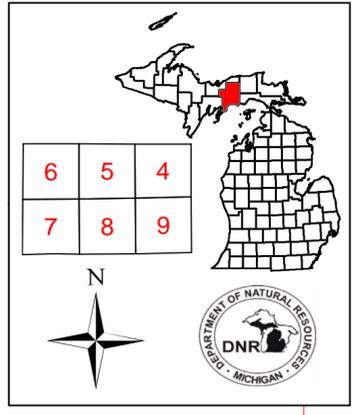
ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
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Cover Type & Treatment Map

Compartment: 049
 T43N R14W Sec. 4, 5, 6, 7, 8, 9
 County: Schoolcraft
 Unit: Shingleton
 YOE: 2014
 Acres: 0 GIS Calculated
 Examiner: Tori Irving
 Map Revised: 09/12/2012
 Map Phase: Pre-Review

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



Legend

- ◆ DNR Survey Corner
- ◇ DNR Field Corner
- Miris Corners
- Gravel Roads
- Poor Dirt Roads
- Trail (Non-Recreation)
- Snowmobile Trails
- Snowmobile Trail
- Stream
- Intermittent Stream
- Lakes and Rivers

Treatments

- Clearcut (w/Reserves, Patch/Strip)

Forest Stands

Level 3

- 422 - Natural Pines
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

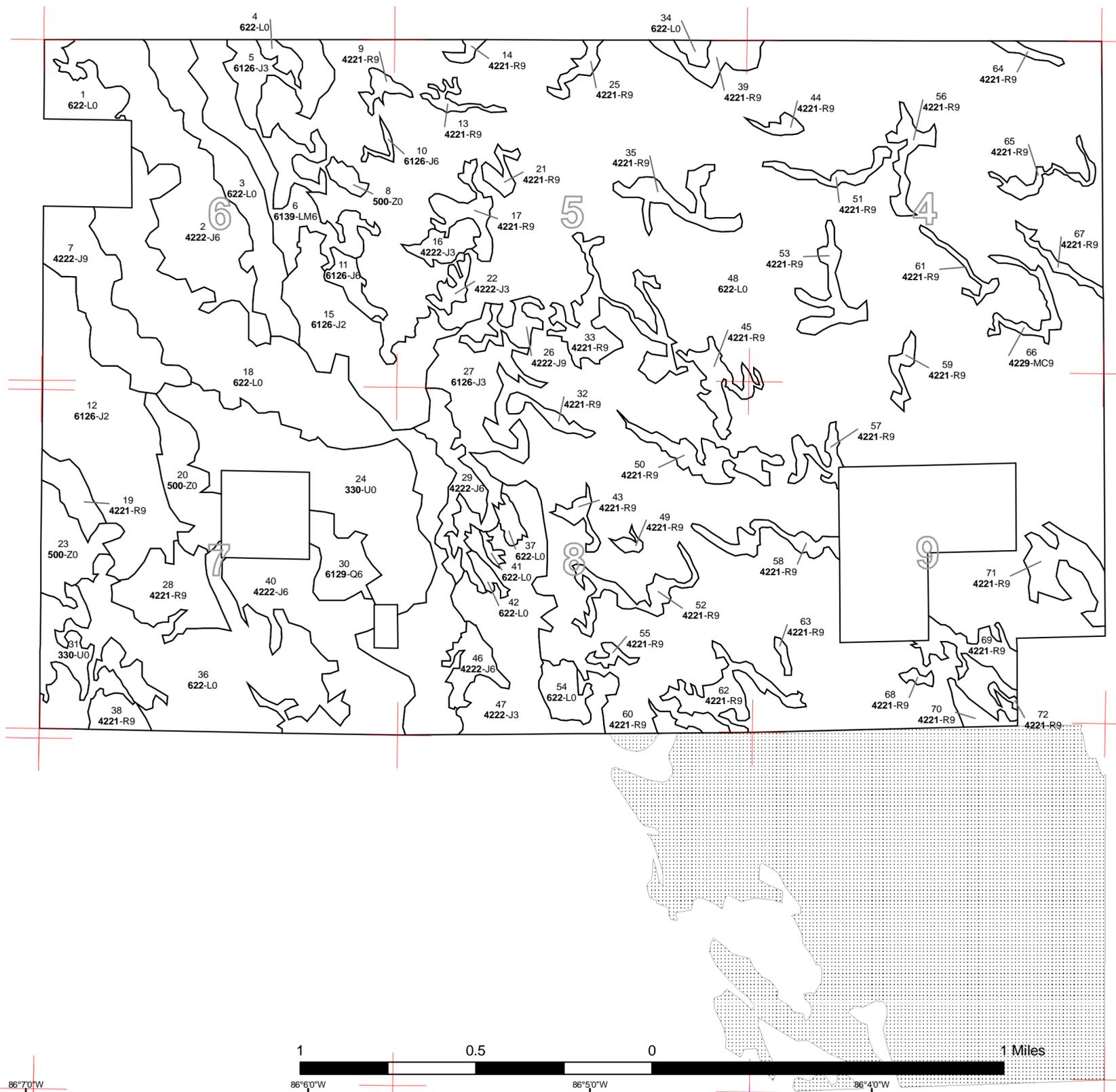
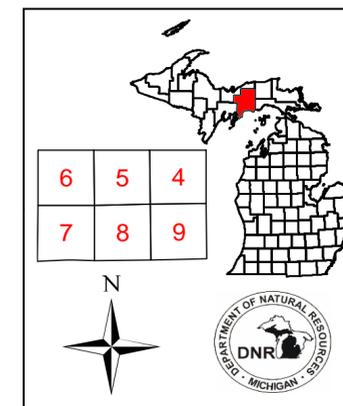
Level 3

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

Compartment: 049
 T43N R14W Sec. 4, 5, 6, 7, 8, 9
 County: Schoolcraft
 Unit: Shingleton
 YOE: 2014
 Acres: 0 GIS Calculated
 Examiner: Tori Irving
 Map Revised: 09/12/2012
 Map Phase: Pre-Review

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

Dedicated & Proposed Special Conservation Area Map



Legend

- Miris Corners
- Stand Boundaries
- Forest Stands**
- Level 3
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- Proposed Special Conservation Areas**
- SCA - Special Conservation Area

