



**SHINGLETON Forest Management Unit**  
**Compartment Review Presentation**  
**Compartment # 152                      Entry Year: 2013**  
**Compartment Acreage: 2854    County: Schoolcraft**

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**Revision Date:** 08/15/2011

**Stand Examiner:** Jesse Bramer

**Legal Description:** T46N R15W Sections 13, 14, and 22 - 27

**RMU (if applicable):** Casino Complex

**Management Goals:** To provide multiple use benefits for the citizens of Michigan.

**Soil and Topography:** The area features a mix of flat, wetter areas with muck soils and ridges with sandy soils & better drainage.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Mostly state-owned.

**Unique, Natural Features:** The Driggs River forms the eastern boundary of this compartment.

**Archeological, Historical, and Cultural Features:** None known at this time.

**Special Management Designations or Considerations:** The hardwoods in this compartment are fairly low quality, but offer opportunities to increase diversity and improve wildlife habitat through silvicultural practices that favor hemlock, yellow birch, and white pine.

**Watershed and Fisheries Considerations:** Fisheries Values Excellent. The Driggs River itself and its tributaries are Second Quality Cold Water (SQCW). Fisheries Division has spent considerable time and money on streambank protection in the Driggs. No harvest treatments are near water for YOE 2013.

**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 between 120 and 140 inches. General Land Office (GLO) Surveyor notes show a mixed conifer/deciduous forest type dominated the uplands. Hemlock, white pine, birch (presumably yellow birch) appeared to be the most common species. Beech, red maple, and sugar maple were also present. Lowlands contained cedar, black spruce, tamarack, and some jack pine. Windthrow, wildfire, and beaver ponding along the Driggs River undoubtedly impacted the local ecology. Today's upland forests contain more aspen and less conifer species than was found in 1851. Most of the lowlands are similar in species composition to that era. However, some lowlands that were once dominated by conifer are now deciduous stands. Wildlife habitat objectives include restoring a portion of the uplands to a species mix similar to presettlement conditions, promoting age and structural diversity among aspen stands and lowland conifer stands, maintaining closed canopy coniferous forests, and protecting the Driggs River riparian corridor. Gray wolves (Federal and Michigan endangered) and moose (Michigan special concern) have been recorded within this compartment. Other species of interest include kingfisher, great blue heron, boreal chick-a-dee, least chipmunk, and northern flying squirrel.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of lacustrine (lake) sand and gravel and peat and muck. There is approximately 80 feet of local relief in the compartment. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton and Black River Groups subcrop below the glacial drift. The Trenton and Black River are used for stone/dolomite in the UP. Gravel pits are not found in the general area and potential appears to be limited. There is no commercial oil and gas production in the UP.

**Vehicle Access:** The Ecklund Rd. provides fair access to the north part of the compartment, but much of the area is too wet to reach easily, and few usable roads exist.

**Survey Needs:** Some treatments border private land and survey work may be needed.

### **Recreational Facilities and Opportunities:**

**Fire Protection:** The access problems could make fire suppression difficult here.

### **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	
	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
Aspen	0	129	32	0	0	0	0	0	8	0	0	0	0	0	0	169
Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Herbaceous Openland	558	0	0	0	0	0	0	0	0	0	0	0	0	0	0	558
Jack Pine	0	0	8	0	0	0	50	0	0	0	0	0	0	0	0	58
Low-Density Trees	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Lowland Aspen/Balsam Poplar	0	18	0	0	6	0	0	0	0	0	0	0	0	0	0	24
Lowland Conifers	0	129	14	18	0	0	146	33	166	91	0	0	5	0	0	602
Lowland Deciduous	0	84	193	0	4	0	55	74	0	0	0	0	0	0	0	411
Lowland Mixed Forest	0	0	0	0	31	0	0	225	0	0	0	0	0	0	0	256
Lowland Shrub	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120
Lowland Spruce/Fir	0	0	0	0	0	0	35	0	103	0	8	0	0	0	0	145
Marsh	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Natural Mixed Pines	0	0	0	0	0	0	28	0	11	0	0	0	0	0	0	38
Northern Hardwood	0	0	0	12	0	201	14	25	0	0	0	0	0	0	0	251
Paper Birch	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16
Planted Mixed Pines	0	0	0	0	0	0	0	56	0	0	0	0	0	0	0	56
Treed Bog	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Upland Conifers	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6
Upland Mixed Forest	0	6	0	0	10	5	0	0	0	0	0	0	0	0	0	21
Upland Shrub	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Urban	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Water	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
<b>Total</b>	<b>801</b>	<b>366</b>	<b>247</b>	<b>30</b>	<b>51</b>	<b>206</b>	<b>329</b>	<b>428</b>	<b>293</b>	<b>91</b>	<b>8</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>2854</b>



## Table 2 – Proposed Treatment Summaries

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

**Compartment 152**  
**Total Compartment Acres: 801.2**

### Acres by Treatment Type

Commercial Harvest - 0	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
	#Error	#Error	#Error	#Error	#Error	#Error	#Error
<b>Total</b>	#Error	#Error	#Error	#Error	#Error	#Error	#Error



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	41152002-Cut	5.0	6127 - Lowland Pine	Medium Density Log	111	Harvest	Clearcut with Reserves	6127 - Lowland Pine	Cmpt. Review Proposal
<u>Prescription</u> <u>Specs:</u>  <u>Other</u> <u>Comments:</u>  <u>Next</u> <u>Steps:</u>									
3	41152003-Cut	14.4	4115 - Y.Birch, Hemlock NH	High Density Pole	52	Harvest	Single Tree Selection	4115 - Y.Birch, Hemlock NH	Cmpt. Review Proposal
<u>Prescription</u> <u>Specs:</u>  <u>Other</u> <u>Comments:</u>  <u>Next</u> <u>Steps:</u>									
29	41152029-Cut	15.2	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	68	Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<u>Prescription</u> <u>Specs:</u>  <u>Other</u> <u>Comments:</u>  <u>Next</u> <u>Steps:</u>									
30	41152030-Cut	7.2	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	68	Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<u>Prescription</u> <u>Specs:</u>  <u>Other</u> <u>Comments:</u>  <u>Next</u> <u>Steps:</u>									
34	41152034-Cut	16.0	6116 - Lowland Birch	High Density Pole	68	Harvest	Clearcut with Reserves	6116 - Lowland Birch	Cmpt. Review Proposal
<u>Prescription</u> <u>Specs:</u>  <u>Other</u> <u>Comments:</u>  <u>Next</u> <u>Steps:</u>									



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
39	41152039-Cut	29.0	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	68	Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<u>Prescription</u> <u>Specs:</u>									
<u>Other</u> <u>Comments:</u>									
<u>Next</u> <u>Steps:</u>									
45	41152045-Cut	22.5	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	68	Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<u>Prescription</u> <u>Specs:</u>									
<u>Other</u> <u>Comments:</u>									
<u>Next</u> <u>Steps:</u>									
48	41152048-Cut	5.1	4319 - Mixed Upland Forest	Medium Density Pole	41	Harvest	Clearcut with Reserves	4136 - Aspen, Mixed Conifer	Cmpt. Review Proposal
<u>Prescription</u> <u>Specs:</u>									
<u>Other</u> <u>Comments:</u>									
<u>Next</u> <u>Steps:</u>									
54	41152054-Cut	93.2	6122 - Black Spruce	Medium Density Pole	76	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
<u>Prescription</u> <u>Specs:</u>									
<u>Other</u> <u>Comments:</u>									
<u>Next</u> <u>Steps:</u>									
63	41152063- Prep	103.7	429 - Mixed Upland Conifers	Low Density Sapling	7	Site Prep	Scarification	6129 - Mixed Coniferous Lowland Forest	Cmpt. Review Proposal
<u>Prescription</u> <u>Specs:</u>									
<u>Other</u> <u>Comments:</u>									
<u>Next</u> <u>Steps:</u>									

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
66 41152066-Plant	55.5	42140 - Planted Mixed Pine	Medium Density Log	61	Tree Planting	Hand Plant	42110 - Planted Red Pine	Cmpt. Review Proposal

PrescriptionSpecs:OtherComments:NextSteps:

75 41152075-Plant	10.8	42290 - Natural Mixed Pine	Low Density Log	71	Tree Planting	Hand Plant	42110 - Planted Red Pine	Cmpt. Review Proposal
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PrescriptionSpecs:OtherComments:NextSteps:

**Total Treatment  
Acreage Proposed: 377.7**

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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

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**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
<b>41022_OutOfY OE-Cut</b>	35.6				Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> 3rd row thinning. Cut all trees in designated rows. Rows can be spaced wider apart in areas with lower basal area. Do not cut hemlock and oak.								
<u>Specs:</u>								
<u>Other</u> Do not cut any trees within 50 feet of the West Branch Manistique River.								
<u>Comments:</u>								
<u>Next</u> Thin next year of entry.								
<u>Steps:</u>								
<b>41049_OutOfY OE_1-Cut</b>	4.7				Harvest	Single Tree Selection	42290 - Natural Mixed Pine	Cmpt. Review Proposal
<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								
<u>Specs:</u> marked to 80. Cut all other species except hemlock and oak if present.								
<u>Other</u> Access to stand is too difficult for continuous thinning.								
<u>Comments:</u>								
<u>Next</u> Regeneration walkthrough during next inventory cycle. Acceptable regeneration includes any species mixture currently found onsite.								
<u>Steps:</u>								
<b>41053_OutOfY OE-Cut</b>	10.2				Harvest	Single Tree Selection	42290 - Natural Mixed Pine	Cmpt. Review Proposal
<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								
<u>Specs:</u> marked to 80. Cut all other species except hemlock and oak if present.								
<u>Other</u> Access to stand is too difficult for continuous thinning.								
<u>Comments:</u>								
<u>Next</u> Regen walkthrough during next inventory cycle. Acceptable regeneration includes any species mixture currently found onsite.								
<u>Steps:</u>								
<b>Total Treatment Acreage Proposed:</b>		<b>50.5</b>						



Stand	Shingleton Mgt. Unit			5 – Forested Stands		Compartment: 152 Year of Entry: 2013
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4119 - Mixed Northern Hardwoods	High Density Pole	24.6	64	81-110	
2	6127 - Lowland Pine	Medium Density Log	5.0	111	51-80	
3	4115 - Y.Birch, Hemlock NH	High Density Pole	14.4	52	111-140	This is a red maple stand with a mix of yellow birch and beech. The understory is a flush of balsam fir and hemlock. The terrain is somewhat hilly too.
4	4319 - Mixed Upland Forest	Medium Density	6.0	5	1-50	This stand was harvested in the recent past. There are a lot of pole sized hemlock trees probably left from the last harvest. The stand was last harvested under TS# 034-03.
6	429 - Mixed Upland Conifers	High Density Pole	5.9	70	1-50	This stand is on higher ground compared to the surrounding open area to the east. It contains a lot of white pine, pole-sized trees with paper birch mixed in. Most of the older birch is dead.
8	4133 - Aspen, Mixed Pine	Medium Density	28.9	12		This is a sapling sized aspen stand that was harvested around 1999. Logging roads built into this stand from previous timber harvests were handplanted with red pine which is growing well.
9	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density	43.1	11		This is a lowland forest with a lot of tag alder, black ash, and water. It was cut around 1999 under TS # 02-96 and has been regenerating since.
11	4112 - Maple, Beech, Cherry Association	High Density Pole	29.6	45	81-110	This stand contains red maple and black cherry with some white pine in the supercanopy. There is also a thick understory of balsam fir and hemlock.
12	6122 - Black Spruce	High Density Pole	35.0	51	1-50	This is a spruce stand with mostly submerchantable trees that will be growing into the next size class over the next 10 - 20 years.
13	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	9.5	71	111-140	This stand contains cedar with other lowland tree species mixed in.
15	6129 - Mixed Coniferous Lowland Forest	High Density Sapling	18.2	20	1-50	This stand surrounds a treed bog and consists of hemlock, spruce, fir, and tamarack.
16	6112 - Lowland Aspen	Medium Density	18.1	9		This stand was harvested in 2002 under TS # 02-96. The stand is regenerating naturally back to an aspen stand.
17	6128 - Lowland Coniferous, Mixed Deciduous	Low Density Sapling	27.1	71		This is a sapling-sized tree, wet, and lowland area.
18	6132 - Mixed Lowland Forest with Cedar	Medium Density	224.8	61		This is a large lowland stand with a mix of conifer and deciduous tree species. The fir and some spruce trees have died out in recent years, and so have the paper birch due to high water levels, but there are areas of higher ground with good regeneration.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	4113 - R.Maple, Conifer	High Density Sapling	11.6	20	1-50	Sapling sized stand dominated by red maple.
20	6128 - Lowland Coniferous, Mixed Deciduous	Low Density Sapling	41.8	71		This is a lowland area that is wet with sapling to pole-sized cedar, black spruce, and tamarack.
21	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	22.7	61	1-50	This stand appears to have been flooded with water due to beaver activity in the area. A lot of trees are dying out probably due to this. A flush of thick regeneration is growing where larger diameter trees are dead or dying.
22	4115 - Y.Birch, Hemlock NH	High Density Pole	171.1	47	51-80	This stand was thinned 2004-2006 under TS # 034-03. There is a lot of hemlock in the canopy.
23	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	68.6	15		This stand was cut around 1996. It contains mostly aspen.
24	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	5.5	71	51-80	This is a little patch of hemlock and white pine.
26	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	10.3	61	111-140	This stand contains a lot of large cedar with over mature aspen and paper birch which is now declining in health.
28	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	104.8	51	51-80	This is a large stand with mostly sapling to pole-sized black spruce with cedar, tamarack, and paper birch mixed in. The cedar is present in clumps as well.
29	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	15.2	68	51-80	This is a lowland birch stand that was set up for harvest before like the other nearby lowland birch stands, but treatment limiting factors such as water and market conditions didn't allow it. The birch in this stand are falling apart, but there are still some birch left that could be harvested.
30	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	7.2	68	51-80	This is a lowland birch stand that was set up for harvest before like the other nearby lowland birch stands, but treatment limiting factors such as water and market conditions didn't allow it. The birch in this stand are falling apart, but there are still some birch left that could be harvested.
31	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density	61.4	12		This stand was harvested in 1999 and is still regenerating back to an aspen stand.
32	6118 - Lowland Deciduous with Cedar	Medium Density	42.6	55		This is a low, wet area with mostly sapling sized deciduous and conifer trees. Tree death is constant due to the water, thus keeping tree sizes small and a large sapling-sized black ash component present.
33	6122 - Black Spruce	High Density Pole	4.6	76	51-80	This is a small pocket of black spruce probably left as retention since a lot of the stands to the east were harvested.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
34	6116 - Lowland Birch	High Density Pole	16.0	68	51-80	This is a lowland birch stand that is on wet soil. The merchantable birch in this stand has been degrading for awhile and much of it is already dead. This stand was prioritized as too wet and no market for the species present as treatment limiting factors.
35	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	12.4	51	51-80	Treatment Limiting factor; too wet, inadequate volume. This is a ridge of paper birch and aspen with other hardwood and conifer species.
37	6124 - Lowland Spruce-Fir	High Density Pole	91.3	81	81-110	This is a black spruce stand that contains small pockets of aspen and red pine.
39	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	29.0	68	1-50	This stand was prescribed for treatment before, but site and market conditions were bad. The stand now has a treatment limiting factor prioritized due to water and bad market conditions. The paper birch in this stand are declining and may have greatly reduced its economic value by now.
40	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Sapling	19.9	14		Stand was harvested around 2007 under TS # 018-03. Large white and red pine were left except a few defective ones. Aspen TSI was done after the stand was cut in 2007 under FTP W41-1120.
44	6129 - Mixed Coniferous Lowland Forest	High Density Pole	81.7	76	1-50	This stand is a mixture of spruce, tamarack, white pine, jack pine, and paper birch.
45	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	22.5	68	1-50	This stand was prescribed for treatment before, but site and market conditions were bad. The stand now has a treatment limiting factor prioritized due to water and bad market conditions. The paper birch in this stand are declining and may have greatly reduced its economic value by now.
48	4319 - Mixed Upland Forest	Medium Density Pole	5.1	41	51-80	This stand occurs on a steep ridge that has pole-sized aspen and paper birch. There are scattered supercanopy white pine trees too. Also there is a limiting factor prioritized for the stand. This stand was to be cut with the surrounding stands but wasn't.
50	4132 - Aspen, Jack Pine	Medium Density	2.8	13		This stand was harvested around 1998 along with stand 46. There is now sapling size aspen regenerating very well.
51	6126 - Lowland Jack Pine	Medium Density	8.3	13		This stand is a sapling sized jack pine stand with aspen, tamarack, and white pine mixed in.
52	6139 - Mixed Lowland Forest	High Density Sapling	31.4	35		This is a low area with wet soils that is producing poor quality deciduous and conifer trees that generally does not exceed the sapling-sized class.
53	6126 - Lowland Jack Pine	High Density Pole	50.1	50	51-80	This stand is mostly pole-sized jack pine with other species mixed in.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
54	6122 - Black Spruce	Medium Density Pole	98.0	76	51-80	This stand is mostly black spruce in the sapling to pole sized class. There are areas of varying basal areas and tree sizes too.
56	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density	13.5	13		This stand contains mostly sapling sized aspen with jack pine and black spruce.
59	6122 - Black Spruce	Medium Density	7.7	91	1-50	This stand contains a limiting factor prioritized as other agency concern, (WLD): leave for wildlife cover.
60	4311 - Pine, Aspen Mix	High Density Sapling	9.7	34	1-50	This stand is mostly sapling sized aspen with large, supercanopy white and red pine trees scattered throughout the stand too.
63	6124 - Lowland Spruce- Fir	Medium Density	128.9	7		This stand was clearcut under TS# 040-03. Presently the stand contains supercanopy white and red pine scattered about and also occurring in a few small pockets. There are also patches of jack pine, spruce, and tamarack. Most of the stand is in the sapling size class, which is mostly spruce. The stand was also being managed under FTP # C41-1148, but no trenching or planting occurred and the stand is naturally regenerating on its own. A regeneration check should be scheduled next inventory cycle, 2013.
66	42140 - Planted Mixed Pine	Medium Density Log	55.5	61	81-110	This area was thinned under TS# 040-03. More trees were left along the Drigg's River. Red and Jack pine trench and planting cultivation work was done in the stand under FTP # C41-1148. [3-11-09] Area was trenched in 2008 and is ready for planting. It is unknown how many acres of this stand was actually done. [5/29/09] Planted only the red pine portion, no jack pine available. [8/2/10 JB] 2010 regen check for red pine was 740 trees/acre and 170 volunteer trees/acre. Needs 2012 regen check for red pine, and to see if jack pine was ever planted.
70	6112 - Lowland Aspen	Medium Density Pole	1.7	36	1-50	This stand is an aspen dominated area with other tree species mixed in. It occurs near the west bank of the Drigg's River.
71	42290 - Natural Mixed Pine	High Density Pole	27.6	51	1-50	This stand pole-sized jack pine with other conifer and deciduous species present.
73	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density	84.4	8		This stand was harvested around 2002 under TS# 014-01, and has Aspen TSI work done under FTP W41-1021 shortly after the harvest.
74	6112 - Lowland Aspen	Medium Density Pole	4.0	36	1-50	This stand is an aspen dominated area with other tree species mixed in. It occurs near the west bank of the Drigg's River.
75	42290 - Natural Mixed Pine	Low Density Log	10.8	71	1-50	Stand was harvested under TS # 040-03. There is sapling sized regeneration in the understory with supercanopy white and red pine. This stand was also under FTP # C41-1148. Area was not trenched nor planted, but is naturally regenerating. Schedule regeneration check next inventory cycle, 2013.
76	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	41.6	51	51-80	This stand is a diverse stand with multiple tree species and varying basal areas.

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Shingleton Mgt. Unit

## 5 – Forested Stands

Compartment: 152  
Year of Entry: 2013

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
77	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	4.2	36	1-50	This stand is an aspen dominated area with other tree species mixed in. It occurs near the west bank of the Drigg's River.
81	4130 - Aspen	High Density Pole	8.3	71	81-110	This is a small mature aspen stand in the South East corner of the compartment off of M-28.
83	4133 - Aspen, Mixed Pine	High Density Sapling	128.9	7		Most of the stand is in the sapling size class, which is red maple and aspen. The logging roads within this stand were also hand planted with red pine.
83	6122 - Black Spruce	Low Density Pole	98.0	76	1-50	This stand is mostly black spruce in the sapling to pole sized class. This is a treed bog.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
5	622 - Lowland Shrub	4.5	N/A	Unspecified	
7	310 - Herbaceous Openland	13.0	N/A	Unspecified	
10	6224 - Treed Bog	2.2	N/A	Unspecified	
14	6224 - Treed Bog	12.2	N/A	Unspecified	
25	310 - Herbaceous Openland	14.0	N/A	Unspecified	
27	622 - Lowland Shrub	55.6	N/A	Unspecified	
36	50 - Water	2.4	N/A	Unspecified	
38	310 - Herbaceous Openland	13.3	N/A	Unspecified	
41	50 - Water	5.5	N/A	Unspecified	
42	6224 - Treed Bog	4.1	N/A	Unspecified	
43	310 - Herbaceous Openland	61.5	N/A	Unspecified	
46	330 - Low-Density Trees	26.0	Natural Regen	Aspen	This area was harvested along with the surrounding area from 2004-2005 under TS# 040-02. There is a lot of residual white pine left. This stand is naturally regenerating.
47	6224 - Treed Bog	5.4	N/A	Unspecified	
49	622 - Lowland Shrub	4.9	N/A	Unspecified	
55	310 - Herbaceous Openland	390.9	N/A	Unspecified	
57	6225 - Bog	8.9	N/A	Unspecified	
58	310 - Herbaceous Openland	34.4	N/A	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
61	330 - Low-Density Trees	12.8	Natural Regen	Aspen	This area was harvested along with the surrounding area from 2004-2005 under TS# 040-02. There is a lot of residual white pine left. This stand is naturally regenerating.
62	320 - Upland Shrub	14.1	N/A	Unspecified	
64	3102 - Grass	3.2	N/A	Unspecified	
65	122 - Road/Parking Lot	20.2	N/A	Unspecified	
67	3105 - Mixed Upland Herbaceous	17.6	Yes	Jack Pine	This stand was harvested with the other nearby stands under TS #040-03 in 2004-2005. Under FTP # C41-1148 stand will be trenched and planted to jack pine. [3/11/09] stand was trenched and is ready for planting. The exact amount of the area trenched is unknown. [5/29/10] Received completion report for jack pine planting for this stand on 5 acres. Needs regen check in 2011.
68	623 - Emergent Wetland	6.1	N/A	Unspecified	
69	330 - Low-Density Trees	3.2	N/A	Unspecified	
72	622 - Lowland Shrub	41.0	N/A	Unspecified	
78	310 - Herbaceous Openland	4.5	N/A	Unspecified	
79	310 - Herbaceous Openland	3.0	N/A	Unspecified	
80	622 - Lowland Shrub	13.8	N/A	Unspecified	
82	310 - Herbaceous Openland	3.1	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.

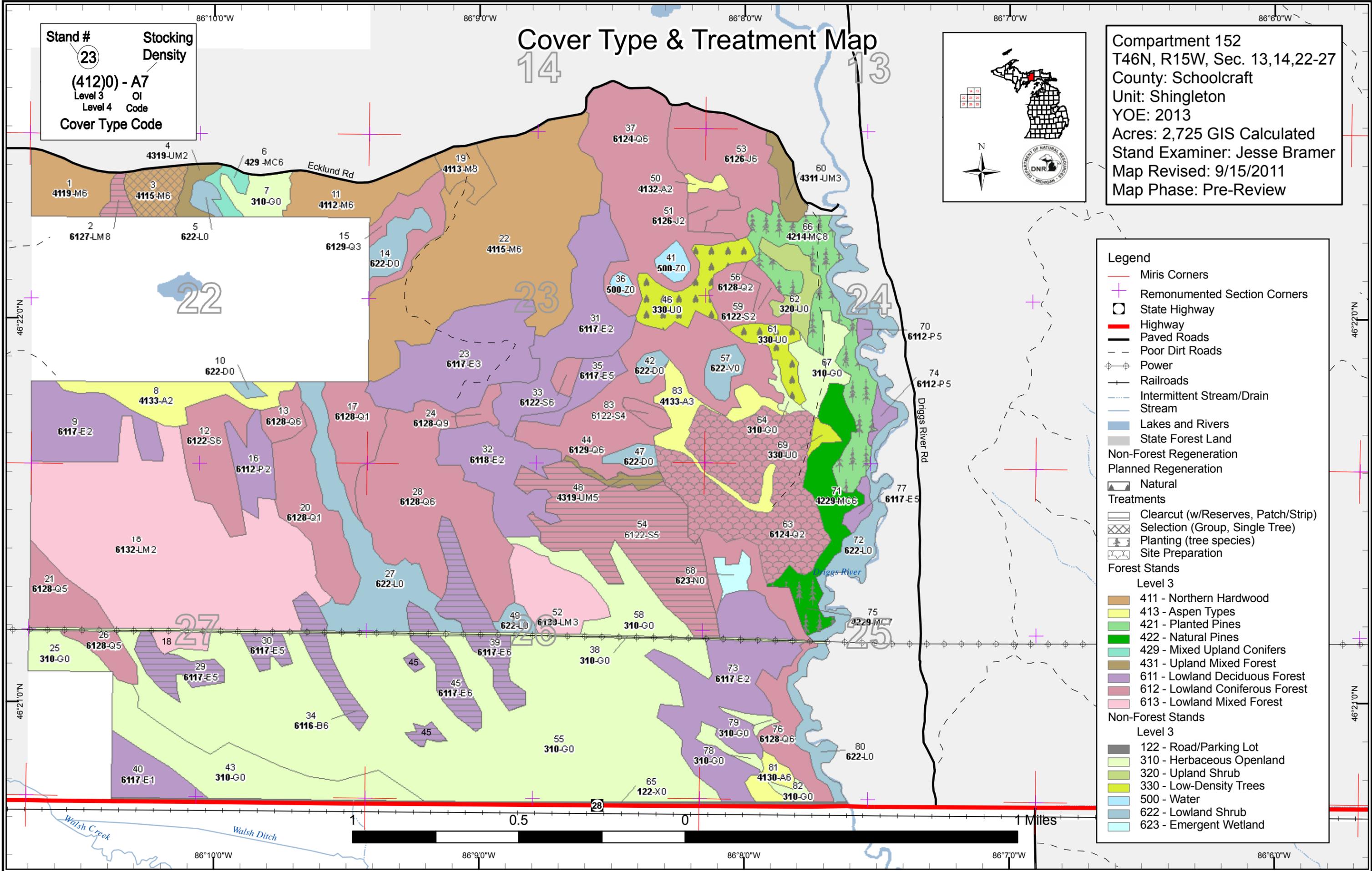
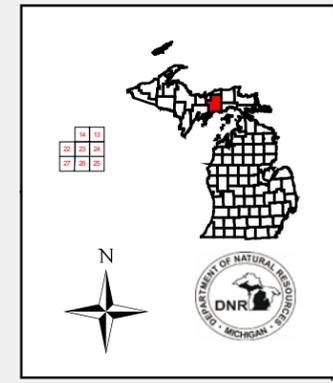
ERA = Ecological Reference Area  
 HCVA = High Conservation Value Area  
 SCA = Special Conservation Area

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.

# Cover Type & Treatment Map

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

Compartment 152  
 T46N, R15W, Sec. 13,14,22-27  
 County: Schoolcraft  
 Unit: Shingleton  
 YOE: 2013  
 Acres: 2,725 GIS Calculated  
 Stand Examiner: Jesse Bramer  
 Map Revised: 9/15/2011  
 Map Phase: Pre-Review



- Legend**
- Miris Corners
  - ⊕ Remonumented Section Corners
  - State Highway
  - Highway
  - Paved Roads
  - - - Poor Dirt Roads
  - ⊕ Power
  - Railroads
  - Intermittent Stream/Drain
  - Stream
  - Lakes and Rivers
  - State Forest Land
  - Non-Forest Regeneration
  - Planned Regeneration
  - ▒ Natural
  - Treatments
  - ▒ Clearcut (w/Reserves, Patch/Strip)
  - ▒ Selection (Group, Single Tree)
  - ▒ Planting (tree species)
  - ▒ Site Preparation
  - Forest Stands
  - Level 3
  - 411 - Northern Hardwood
  - 413 - Aspen Types
  - 421 - Planted Pines
  - 422 - Natural Pines
  - 429 - Mixed Upland Conifers
  - 431 - Upland Mixed Forest
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
  - 613 - Lowland Mixed Forest
  - Non-Forest Stands
  - Level 3
  - 122 - Road/Parking Lot
  - 310 - Herbaceous Openland
  - 320 - Upland Shrub
  - 330 - Low-Density Trees
  - 500 - Water
  - 622 - Lowland Shrub
  - 623 - Emergent Wetland

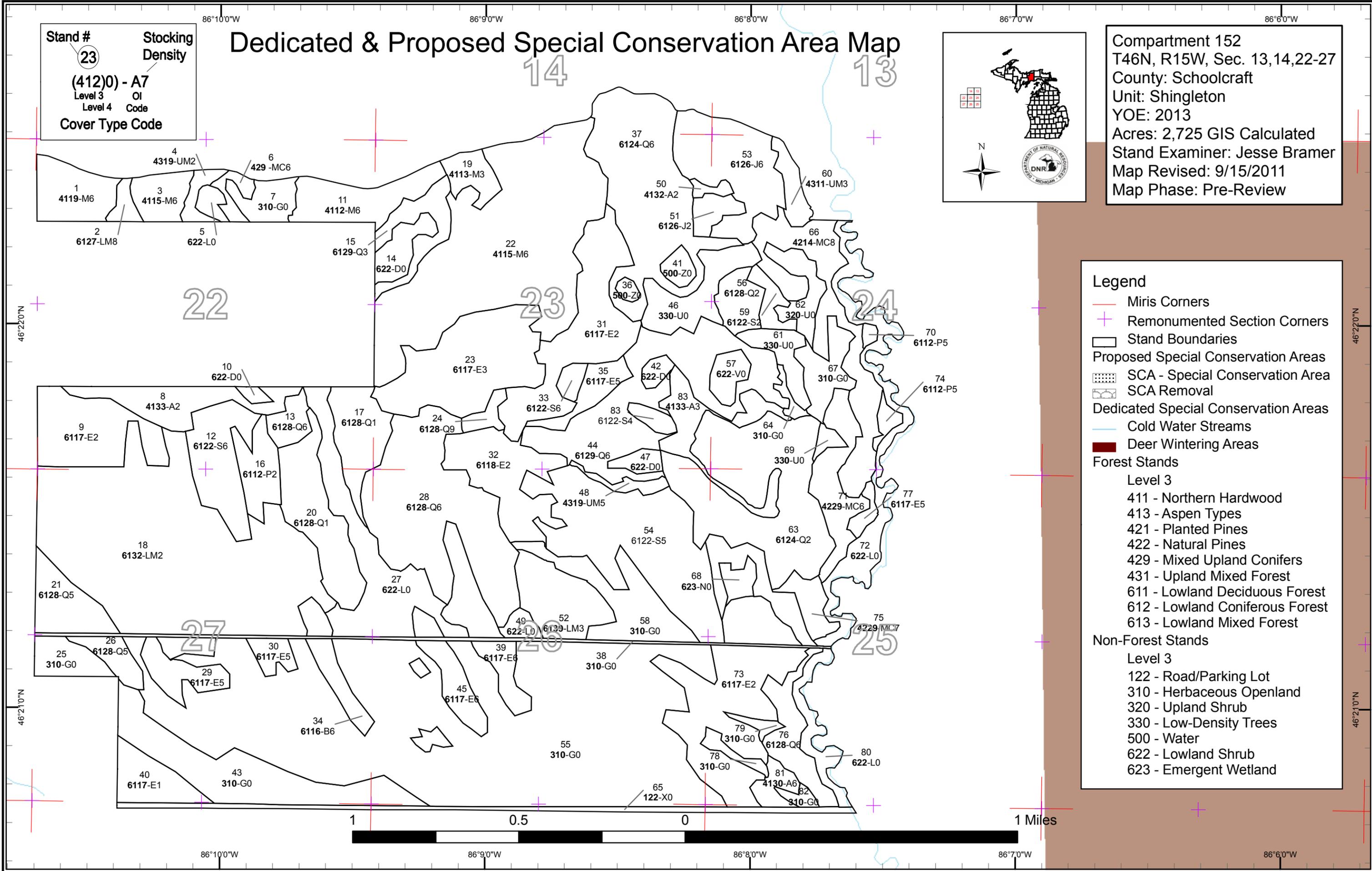




# Dedicated & Proposed Special Conservation Area Map

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

Compartment 152  
 T46N, R15W, Sec. 13,14,22-27  
 County: Schoolcraft  
 Unit: Shingleton  
 YOE: 2013  
 Acres: 2,725 GIS Calculated  
 Stand Examiner: Jesse Bramer  
 Map Revised: 9/15/2011  
 Map Phase: Pre-Review



- ### 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
    - Deer Wintering Areas
  - Forest Stands
    - Level 3
    - 411 - Northern Hardwood
    - 413 - Aspen Types
    - 421 - Planted Pines
    - 422 - Natural Pines
    - 429 - Mixed Upland Conifers
    - 431 - Upland Mixed Forest
    - 611 - Lowland Deciduous Forest
    - 612 - Lowland Coniferous Forest
    - 613 - Lowland Mixed Forest
  - Non-Forest Stands
    - Level 3
    - 122 - Road/Parking Lot
    - 310 - Herbaceous Openland
    - 320 - Upland Shrub
    - 330 - Low-Density Trees
    - 500 - Water
    - 622 - Lowland Shrub
    - 623 - Emergent Wetland



46°22'0"N  
46°21'0"N

46°22'0"N  
46°21'0"N

86°10'0"W 86°9'0"W 86°8'0"W 86°7'0"W 86°6'0"W

86°10'0"W 86°9'0"W 86°8'0"W 86°7'0"W 86°6'0"W