



**Shingleton Forest Management Unit**  
**Compartment Review Presentation**  
**Compartment #158                      Entry Year: 2013**  
**Compartment Acreage: 1890    County: Schoolcraft**

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**Revision Date:** 8/2011

**Stand Examiner:** Mario Molin

**Legal Description:** T46N R16W Sections 31,32 and 33

**RMU (if applicable):**

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

**Soil and Topography:** Saugatuck and Newton soil series. The terrain is mostly level with small rises and short, low ridges; much of it is fairly wet ground

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The compartment is entirely state-owned. There is one privately-owned camp to the south which is accessed through this area via Hartman Camp Road.

**Unique, Natural Features:** None known at this time.

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

**Special Management Designations or Considerations:** Visual quality along the M-28 corridor, which forms the north boundary of the compartment.

**Watershed and Fisheries Considerations:** Fisheries Values Poor-to-None. Commencement and Pine Creeks are both classified Second Quality Warm Water (SQWW). No 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 degrees F. Annual snowfall in this area averages between 120 and 140 inches. General Land Office (GLO) Surveyor notes indicate that this entire compartment was dominated by swamp conifer stands and open marshes in the 1850s. Cedar, tamarack, black spruce and alder (possibly some willow may have been misidentified as alder) were listed as primary species. The notes also indicate there was at least a small presence of aspen. White pine was the primary upland forest cover type. Both the Pine and Commencement Creeks flow through the western portion of this compartment, coming together approximately ¼ mile to the south. While fire and windthrow undoubtedly played a major role in the disturbance history, GLO notes show that beaver dams were also present. Although aspen and lowland hardwoods also appear to be a bit more abundant, western and central portions of this compartment appear to contain approximately the same species composition as was found by the original surveyors. However, in the eastern portion of the compartment, jack pine now plays a much more significant role than it once did. Wildlife habitat objectives include protecting the stream corridors for the Pine and Commencement Creeks, maintaining large diameter conifers (Stand 31), providing age and structural diversity within the conifer community, and protecting the ecology of the marsh complex. Gray wolves (Michigan and federally

endangered), moose (Michigan special concern) and sharp-tailed grouse (Michigan special concern) are known to utilize this compartment. The regenerating jack pine in section 33 is a good example of an area that has served as temporary sharptail habitat without being removed from forest production. Other wildlife species of interest may include ruffed grouse, American woodcock, bobcat, and black bear.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of Lacustrine (lake) sand and gravel. There is minor local relief in the compartment. There is insufficient data to determine the glacial drift thickness. The Ordovician Black River Group subcrops below the glacial drift. The Black River is used for stone/dolomite in the UP. Gravel pits are located one mile to the west but potential appears to be limited in the compartment. There is no commercial oil and gas production in the UP.

**Vehicle Access:** Access is available only from the north. S. Pine Creek Rd. (gated) and Hartman Camp Rd. (un-gated private crossing) are the only permanent access points crossing the railroad tracks, though one temporary bridge is currently providing access in section 31. All non-paved roads are moderate to poor quality.

**Survey Needs:** None

**Recreational Facilities and Opportunities:** The area is used for remote, walk-in hunting.

**Fire Protection:** Difficult access and low, wet terrain could prove to be a challenge in the event of wildfire.

**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 +		Uneten Age
Aspen	0	15	0	0	1	0	0	0	0	0	0	0	0	0	0	16
Cedar	0	0	0	0	0	0	0	0	0	0	29	0	0	11	0	40
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Jack Pine	0	9	181	133	67	0	15	1	0	21	0	0	0	1	0	429
Low-Density Trees	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Lowland Conifers	0	0	65	1	0	0	4	0	8	7	10	0	0	9	0	105
Lowland Deciduous	0	0	0	0	0	0	4	12	0	0	16	0	10	17	0	60
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	8
Lowland Shrub	357	0	0	0	0	0	0	0	0	0	0	0	0	0	0	357
Lowland Spruce/Fir	0	3	0	0	0	0	15	0	286	38	0	14	0	0	59	415
Red Pine	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3
Tamarack	0	0	0	0	0	0	0	0	0	34	76	72	167	0	0	349
Upland Conifers	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Upland Mixed Forest	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Upland Spruce/Fir	0	12	0	0	0	0	0	0	0	5	0	0	0	0	0	17
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
White Pine	0	0	2	0	0	0	0	0	0	0	3	0	0	24	0	29
<b>Total</b>	<b>380</b>	<b>79</b>	<b>248</b>	<b>134</b>	<b>68</b>	<b>0</b>	<b>38</b>	<b>13</b>	<b>297</b>	<b>106</b>	<b>141</b>	<b>86</b>	<b>178</b>	<b>64</b>	<b>59</b>	<b>1890</b>



## Table 2 – Proposed Treatment Summaries

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

**Compartment 158**  
**Total Compartment Acres: 1890**

### Acres by Treatment Type

Commercial Harvest - 250	Site Prep - 0	Tree Planting - 19	Prescribed Burn - 0	Other - 20
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>Jack Pine</b>	5	0	0	0	0	0	5
<b>Lowland Conifers</b>	12	0	0	0	0	0	12
<b>Lowland Deciduous</b>	17	0	0	0	0	0	17
<b>Lowland Spruce/Fir</b>	57	0	0	0	0	0	57
<b>Tamarack</b>	159	0	0	0	0	0	159
<b>Total</b>	<b>250</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250</b>



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
40	41158040-Cut	7.3	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	83	Harvest	Clearcut	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal

Prescription Clearcut without reserves, too small an acreage to have reserves.

Specs:

Other

Comments:

Next Natural regeneration, check regeneration according to work instructions. Acceptable regeneration is any mix of current species on site.

Steps:

43	41158043-Cut	1.2	6126 - Lowland Jack Pine	High Density Pole	127	Harvest	Clearcut	6126 - Lowland Jack Pine	Cmpt. Review Proposal
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Prescription Clearcut without reserves, too small of an area.

Specs:

Other

Comments:

Next Natural regeneration, check regeneration according to work instructions. Acceptable regeneration is any mix of current species on site.

Steps:

45	41158045-Cut	17.4	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	128	Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
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Prescription Clearcut with "green tree" reserves, 10-20 BA of p. birch and white pine.

Specs:

Other

Comments:

Next Natural regeneration, check regeneration according to work instructions. Acceptable regeneration is any mix of current species on site.

Steps:

48	41158048-Cut	10.0	6122 - Black Spruce	High Density Pole	79	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
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Prescription Clearcut with white pine reserved

Specs:

Other

Comments:

Next Natural regeneration, check regeneration according to work instructions. Acceptable regeneration is any mix of current species on site.

Steps:

66	41158066-Cut	10.5	6121 - Tamarack	High Density Pole	97	Harvest	Clearcut with Reserves	6121 - Tamarack	Cmpt. Review Proposal
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Prescription Clearcut with white pine reserved.

Specs:

Other

Comments:

Next Natural regeneration, check regeneration according to work instructions. Acceptable regeneration is any mix of current species on site.

Steps:



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
70	41158070-Cut	6.2	6122 - Black Spruce	High Density Pole	76	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal

Prescription Clearcut with white pine reserved.

Specs:

Other

Comments:

Next Steps: Natural regeneration, check regeneration according to work instructions. Acceptable regeneration is any mix of current species on site.

71	41158071-Cut	4.9	6122 - Black Spruce	High Density Pole	73	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
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Prescription Clearcut with white pine reserved.

Specs:

Other

Comments:

Next Steps: Natural regeneration, check regeneration according to work instructions. Acceptable regeneration is any mix of current species on site.

72	41158072-Cut1	23.3	6121 - Tamarack	Low Density Pole	93	Harvest	Clearcut with Reserves	6121 - Tamarack	Cmpt. Review Proposal
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Prescription Clearcut with white pine reserved.

Specs:

Other

Comments:

Next Steps: Natural regeneration, check regeneration according to work instructions. Acceptable regeneration is any mix of current species on site.

73	41158073-Cut	17.8	6121 - Tamarack	Low Density Pole	96	Harvest	Clearcut with Reserves	6121 - Tamarack	Cmpt. Review Proposal
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Prescription Clearcut with white pine reserved.

Specs:

Other

Comments:

Next Steps: Natural regeneration, check regeneration according to work instructions. Acceptable regeneration is any mix of current species on site.

74	41158074-Cut1	1.2	6121 - Tamarack	High Density Pole	113	Harvest	Clearcut with Reserves	6121 - Tamarack	Cmpt. Review Proposal
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Prescription Clearcut with white pine reserved.

Specs:

Other

Comments:

Next Steps: Natural regeneration, check regeneration according to work instructions. Acceptable regeneration is any mix of current species on site.



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
75	41158075-Cut	95.0	6121 - Tamarack	High Density Pole	113	Harvest	Clearcut with Reserves	6121 - Tamarack	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with white pine reserved.									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u>									
<u>Next Steps:</u> Natural regeneration, check regeneration according to work instructions. Acceptable regeneration is any mix of current species on site.									
76	41158076-Cut	1.3	6122 - Black Spruce	High Density Pole	103	Harvest	Clearcut	6122 - Black Spruce	Cmpt. Review Proposal
<u>Prescription</u> Clearcut without reserves, area is too small in acreage.									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u>									
<u>Next Steps:</u> Natural regeneration, check regeneration according to work instructions. Acceptable regeneration is any mix of current species on site.									
80	41158080-Cut	9.4	6122 - Black Spruce	High Density Pole	108	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with white pine reserved.									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u>									
<u>Next Steps:</u> Natural regeneration, check regeneration according to work instructions. Acceptable regeneration is any mix of current species on site.									
83	41158083-Cut	3.4	6122 - Black Spruce	High Density Pole	106	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with white pine reserved.									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u>									
<u>Next Steps:</u> Natural regeneration, check regeneration according to work instructions. Acceptable regeneration is any mix of current species on site.									
84	41158084-Cut	11.5	6121 - Tamarack	High Density Pole	110	Harvest	Clearcut with Reserves	6121 - Tamarack	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with white pine reserved.									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u>									
<u>Next Steps:</u> Natural regeneration, check regeneration according to work instructions. Acceptable regeneration is any mix of current species on site.									



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
89	41158089-Cut	5.7	42320 - Upland Spruce	High Density Pole	81	Harvest	Clearcut with Reserves	42330 - Upland Fir	Cmpt. Review Proposal

Prescription Clearcut with white pine reserved.

Specs:

Other

Comments:

Next Natural regeneration, check regeneration according to work instructions. Acceptable regeneration is any mix of current species on site.

Steps:

93	41158093-Cut	4.0	42220 - Natural Jack Pine	High Density Pole	86	Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal
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Prescription Currently under contract

Specs:

Other

Comments:

Next

Steps:

104	41158104-Cut	4.2	6125 - Lowland Black Spruce, Jack Pine	High Density Pole	91	Harvest	Clearcut with Reserves	6125 - Lowland Black Spruce, Jack Pine	Cmpt. Review Proposal
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Prescription Curently under contract.

Specs:

Other

Comments:

Next

Steps:

108	41158108-Cut	16.1	42320 - Upland Spruce	High Density Pole	86	Harvest	Clearcut with Reserves	42320 - Upland Spruce	Cmpt. Review Proposal
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Prescription Curently under contract.

Specs:

Other

Comments:

Next

Steps:

90	NF_41158090- Plant	18.6	Non-Forested		0	Tree Planting	Machine Plant	42120 - Planted Jack Pine	Cmpt. Review Proposal
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Prescription Plant jack pine

Specs:

Other

Comments:

Next Check according to work instructions

Steps:



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
102	NF_41158102- Other	19.6	Non-Forested		0	Other	Unspecified	6112 - Lowland Aspen	Cmpt. Review Proposal

Prescription. Wildlife habitat cut, remove scattered old aspen and jack pine.

Specs:

Other

Comments:

Next None

Steps:

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**Total Treatment  
Acreage Proposed: 288.6**

**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
<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>						



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	Medium Density Pole	1.9	90		Edge call, and old OI data used. Currently flooded, may go to when it dries. Area is not of management interest due to its small size, species composition and proximity to railroad.
3	6122 - Black Spruce	High Density Pole	7.9	57	51-80	Scattered white pine with red maple and tamarack on edges.
4	6122 - Black Spruce	High Density Pole	15.8	76	81-110	Can wait 10 years but would add value to a sale if cutting some other poor stands.
5	42200 - Natural White Pine	High Density Pole	2.7	96	51-80	Suggest waiting 10 years, jack pine on north end.
7	42330 - Upland Fir	Medium Density	12.0	6		Recent cut with paper birch as reserve.
8	4130 - Aspen	High Density Sapling	6.8	6		Aspen whips with white pine residual/superstory.
10	4319 - Mixed Upland Forest	High Density Sapling	7.9	5		Recently cut, with white pine reserved.
11	6120 - Lowland Cedar	High Density Pole	27.1	97	111-140	
12	6127 - Lowland Pine	Low Density Sapling	10.6	12		Recently cut, with white pine reserved. A significant amount of submerchantable cedar in stand.
13	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	9.2	137	1-50	
14	6122 - Black Spruce	Medium Density	3.2	6		Recent cut with birch and maple residual.
16	429 - Mixed Upland Conifers	Low Density Sapling	6.6	5		Recent cut with white pine and paper birch reserved.
17	6122 - Black Spruce	High Density Pole	45.5	74	81-110	Trees are not growing, good unit to add lots of value to a sale. 4-4 sticks. Can hold 10 years if needed.
18	6122 - Black Spruce	High Density Pole	1.6	87	81-110	Can be cut but very small and next to old cuts and L-types. 4-sticks tall.
19	6122 - Black Spruce	Low Density Sapling	58.6	Uneven Age	1-50	Small pockects within the stand of only cedar or black spruce.
20	6125 - Lowland Black Spruce, Jack Pine	Medium Density	54.5	12		Mixed regeneration, some spots are 100% aspen and other areas are aspen with mixed pine.
21	6122 - Black Spruce	High Density Pole	7.2	53	1-50	

S t a n d	Shingleton Mgt. Unit		5 – Forested Stands			Compartment: 158	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
22	6122 - Black Spruce	High Density Pole	6.4	78	1-50		
23	6126 - Lowland Jack Pine	Low Density Sapling	4.8	6			Old cut, a mix of pine is regenerating. It looks like this area holds water.
25	6126 - Lowland Jack Pine	High Density Pole	16.3	87	51-80		Could be cut, but will be low value due to poor stocking. Stand is surrounded by clear cut, could wait for more regen. in surrounding stand.
26	42220 - Natural Jack Pine	High Density Pole	7.0	29	1-50		Patchy, has lots of lows to the south.
27	6122 - Black Spruce	High Density Pole	46.4	76	81-110		Can be held 10 years, Can be added if needing to add value/acres to a sale. Trees are 4 sticks tall.
28	6120 - Lowland Cedar	High Density Log	11.3	140	81-110		Needs to be cut, tamarack is in decline.
30	6126 - Lowland Jack Pine	High Density Pole	1.0	87			Small island, will be difficult to access for very little wood.
31	6122 - Black Spruce	Medium Density Pole	73.0	76	51-80		
32	42220 - Natural Jack Pine	High Density Pole	0.6	66	1-50		Stand bleeds over from comp-14. Took data from 2008 comp-14 OI.
33	42200 - Natural White Pine	High Density Log	14.9	150	81-110		Stand changes a bit on the north end, has a 2-aged look.
34	4134 - Aspen, Spruce/Fir	Low Density Sapling	7.9	5			Regenerating well.
35	6122 - Black Spruce	High Density Pole	5.1	83	81-110		Trees are 4-5 sticks tall.
37	429 - Mixed Upland Conifers	Low Density Sapling	8.1	5			Very open with patchy regeneration.
38	6122 - Black Spruce	High Density Pole	5.3	87	51-80		Spruce is 4-5 sticks tall.
39	6122 - Black Spruce	Medium Density Pole	3.6	86	51-80		Small stand, coreing shows that it isnt growing, small acreage but would be good extra value to another low value stand in area.
40	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	7.3	83	51-80		If other stands being cut, include this.
41	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	10.4	113	51-80		Access may be an issue. Cut with spruce to the north.



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## Shingleton Mgt. Unit

## 5 – Forested Stands

Compartment: 158

Year of Entry: 2013



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42	6122 - Black Spruce	High Density Pole	4.5	78	51-80	
43	6126 - Lowland Jack Pine	High Density Pole	1.2	127	81-110	
44	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density	4.4	55	1-50	
45	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	17.4	128	81-110	
46	42320 - Upland Spruce	High Density Pole	5.3	83	51-80	Cut next entry, trees to the north are small.
47	6113 - Lowland Maple	High Density Pole	12.2	60		Consider cutting in 10 years.
48	6122 - Black Spruce	High Density Pole	10.0	79	81-110	Can be held, cut if adjacent stands are to be cut- access is difficult.
50	42200 - Natural White Pine	Medium Density	1.9	15		Old cut, carries up from southern compartment. OI calls it a J3 I saw oly white pine.
51	429 - Mixed Upland Conifers	Low Density Sapling	17.3	6		Recent cut, red and white pine superstory reserve trees.
52	6139 - Mixed Lowland Forest	High Density Pole	7.7	93	81-110	Stand is in decline.
53	6121 - Tamarack	High Density Pole	20.5	97	51-80	Has a finger of Jack Pine in the south east and a finger of White Pine and Red Pine on the west side.
54	6119 - Mixed Lowland Deciduous Forest	High Density Pole	15.9	96	51-80	Poor quality and stocking site, old red line found (no records that this was prescribed in past)
55	6121 - Tamarack	High Density Pole	33.9	87	1-50	Minimal amount of trees that are actually "ours" because of railroad and highway right-of-way.
56	6122 - Black Spruce	High Density Pole	24.5	72	81-110	Wait 10 years Small island of Jack pine in south west of stand, showed to be 10 years older, still healthy.
57	6122 - Black Spruce	High Density Pole	1.4	76	81-110	
58	6121 - Tamarack	Medium Density Pole	3.9	97	51-80	
59	6122 - Black Spruce	High Density Pole	45.8	74	81-110	Will want to include if cutting in that area. 4-5 sticks tall.

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## Shingleton Mgt. Unit

## 5 – Forested Stands

Compartment: 158  
Year of Entry: 2013

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
60	6121 - Tamarack	High Density Pole	10.9	103	1-50	
62	6121 - Tamarack	High Density Pole	61.2	102	51-80	Patchy open marsh spots, southern end is better quality with more spruce. 3-4 sticks tall
63	6121 - Tamarack	High Density Pole	59.4	117	111-140	
64	6125 - Lowland Black Spruce, Jack Pine	High Density Pole	5.6	97	51-80	The south end has more jack pine.
65	42200 - Natural White Pine	High Density Log	9.5	150	81-110	
66	6121 - Tamarack	High Density Pole	10.5	97	51-80	Can hold for 10 years
69	6119 - Mixed Lowland Deciduous Forest	High Density Pole	4.2	54	1-50	
70	6122 - Black Spruce	High Density Pole	6.2	76	81-110	Can hold for 10 years
71	6122 - Black Spruce	High Density Pole	4.9	73	81-110	Can hold 10 years. Has lots of good balsam fir and spruce regeneration in openings.
72	6121 - Tamarack	Low Density Pole	23.3	93	1-50	
73	6121 - Tamarack	Low Density Pole	17.8	96	1-50	Area was cut in the past (old cut) may be able to use this area to gain access into the other stands.
74	6121 - Tamarack	High Density Pole	1.2	113	1-50	Small island.
75	6121 - Tamarack	High Density Pole	95.0	113	81-110	Small pockets of spruce, use as buffer along marsh when possible (keep alder from encroaching). stand is patchy BA can range from 20 to 120.
76	6122 - Black Spruce	High Density Pole	1.3	103	1-50	Cut with stand 66.
77	42210 - Natural Red Pine	Medium Density Pole	3.0	78	1-50	
78	6122 - Black Spruce	High Density Pole	1.5	78	1-50	If cutting neighboring tamarack stands than add this stand, it appears to be converting to red maple. There is some aspen on the edges.
80	6122 - Black Spruce	High Density Pole	9.4	108	81-110	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
81	6125 - Lowland Black Spruce, Jack Pine	High Density Sapling	1.4	25	1-50	
82	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	7.7	76	1-50	
83	6122 - Black Spruce	High Density Pole	3.4	106	81-110	Small acres but meets age .
84	6121 - Tamarack	High Density Pole	11.5	110	81-110	
87	42220 - Natural Jack Pine	High Density Sapling	19.8	13		Was part of larger stand, this portion is where the regeneration was successful.
88	42120 - Planted Jack Pine	High Density Sapling	4.5	6		This was part of stand 77, This is the only part that stand 77 that seemed to survive. Was originally prescribed for burn and seed then changed to trench and plant.
89	6122 - Black Spruce	High Density Pole	6.0	81	51-80	Can be held for 10 years. Can it be cut this cycle with green-up standards?
91	42220 - Natural Jack Pine	High Density Sapling	78.3	16		
93	42220 - Natural Jack Pine	High Density Pole	4.0	86	81-110	Currently under contract 41-024-10-01 "Black Jack"
94	4136 - Aspen, Mixed Conifer	High Density Pole	1.0	32	1-50	
95	42220 - Natural Jack Pine	High Density Pole	12.1	34	1-50	Stand was prescribed burned in 1977.
96	42220 - Natural Jack Pine	High Density Pole	3.0	58	1-50	
97	42220 - Natural Jack Pine	High Density Sapling	5.3	13		
98	42220 - Natural Jack Pine	High Density Sapling	21.5	13		
99	42220 - Natural Jack Pine	High Density Sapling	110.4	27		Dense J3 starting to make 1-stick.
101	42220 - Natural Jack Pine	High Density Pole	3.9	54	51-80	
103	42220 - Natural Jack Pine	High Density Pole	15.6	27	1-50	Lots of pit-mound topography.

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## Shingleton Mgt. Unit

## 5 – Forested Stands

Compartment: 158  
Year of Entry: 2013

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
104	6125 - Lowland Black Spruce, Jack Pine	High Density Pole	4.2	91	1-50	Appears to be a drainage with a mix of species. The north portion has a significant portion of much older/larger aspen and jack pine.
105	42220 - Natural Jack Pine	High Density Sapling	55.2	33	1-50	
106	42220 - Natural Jack Pine	High Density Sapling	54.9	16		
107	42220 - Natural Jack Pine	High Density Pole	1.0	50	1-50	Looks to be a retention area from the past harvest.
108	6122 - Black Spruce	High Density Pole	16.1	86	51-80	Currently under contract 41-024-10-01 "Black Jack"
109	42220 - Natural Jack Pine	High Density Pole	3.5	59	51-80	
110	42220 - Natural Jack Pine	High Density Sapling	1.4	13		Small bleed over from next compartment.
111	42220 - Natural Jack Pine	High Density Pole	3.4	58	51-80	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	6229 - Mixed lowland shrub	24.2	No	Unspecified	
6	6229 - Mixed lowland shrub	7.7	No	Unspecified	
9	6229 - Mixed lowland shrub	2.1	No	Unspecified	
15	6229 - Mixed lowland shrub	5.8	No	Unspecified	
24	6229 - Mixed lowland shrub	59.0	No	Unspecified	Stream corridor.
29	6220 - Alder/willow	1.0	No	Unspecified	
36	6220 - Alder/willow	52.8	N/A	Unspecified	
49	6229 - Mixed lowland shrub	73.0	No	Unspecified	
61	6229 - Mixed lowland shrub	16.4	No	Unspecified	Tag alder on the edges with willow in the middle.
67	6229 - Mixed lowland shrub	45.2	No	Unspecified	Tag alder on the edges with willow in the middle.
68	50 - Water	1.5	No	Unspecified	
79	6229 - Mixed lowland shrub	3.9	No	Unspecified	
85	6229 - Mixed lowland shrub	33.1	No	Unspecified	
86	6220 - Alder/willow	5.3	No	Unspecified	
90	3302 - Low Density Conifer Trees	18.6	Yes	Jack Pine	May need to re-apply FTP, stand looks to be more grass than jack pine.
92	3102 - Grass	1.9	No	Unspecified	
100	622 - Lowland Shrub	8.1	No	Unspecified	
102	6220 - Alder/willow	19.6	No	Unspecified	This stand is a lowland drainage between 2 young jack pine stands. It does have large, old, unhealthy aspen scattered along the edges.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
112	310 - Herbaceous Openland	1.2	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



### 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

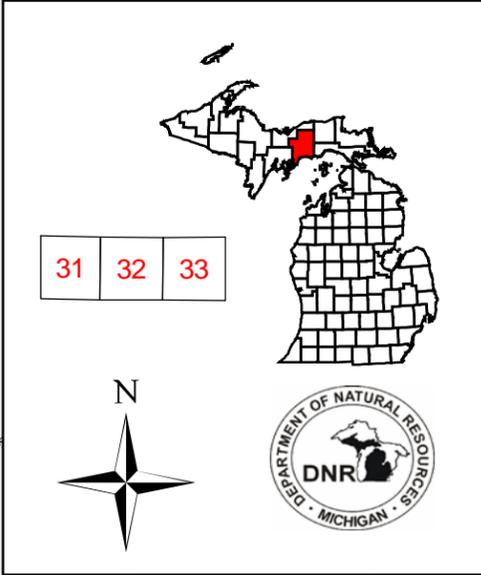
<b>Conservation Area</b>	<b>Type</b>	<b>Description</b>
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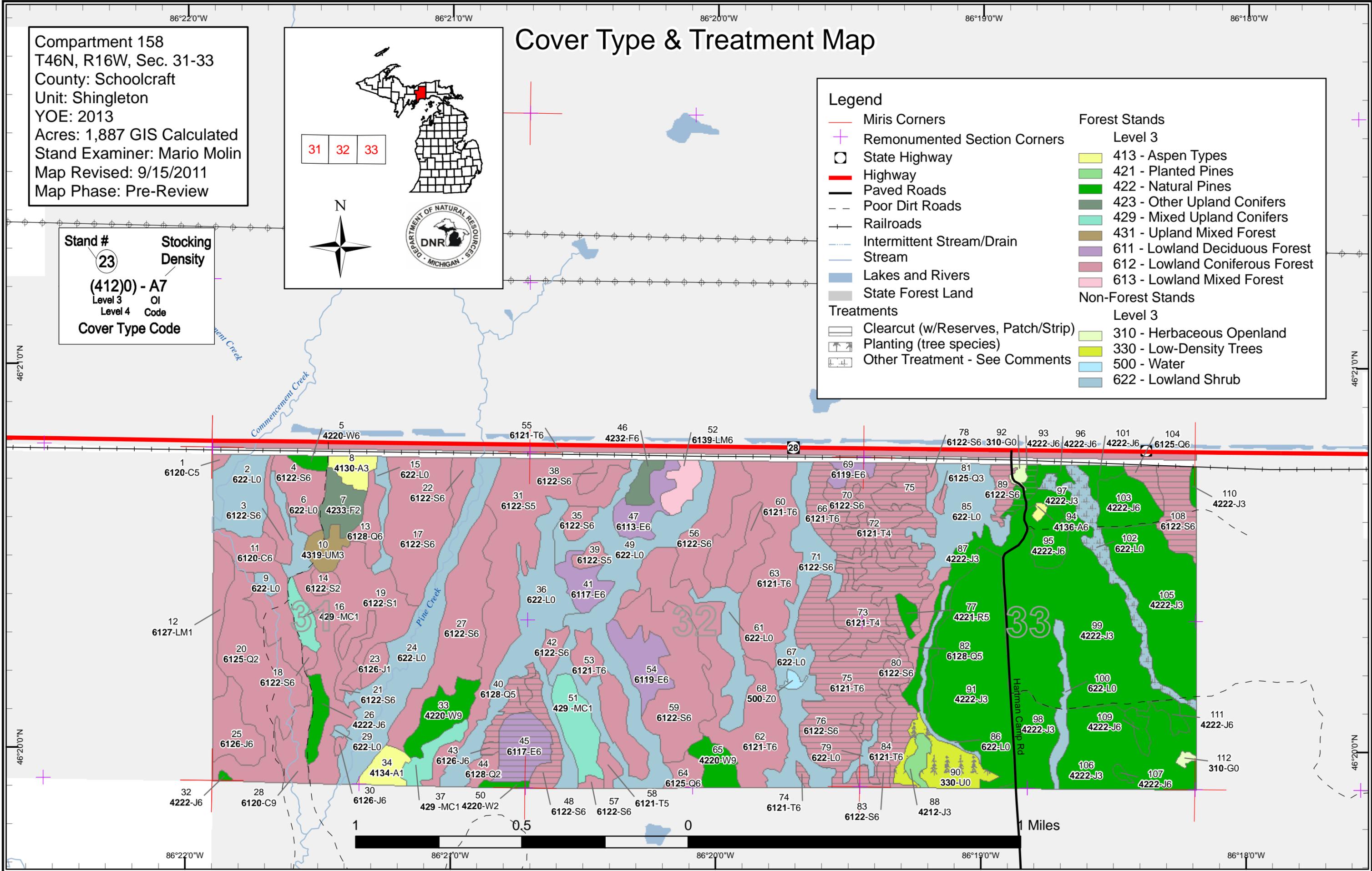
Compartment 158  
 T46N, R16W, Sec. 31-33  
 County: Schoolcraft  
 Unit: Shingleton  
 YOE: 2013  
 Acres: 1,887 GIS Calculated  
 Stand Examiner: Mario Molin  
 Map Revised: 9/15/2011  
 Map Phase: Pre-Review

# Cover Type & Treatment Map



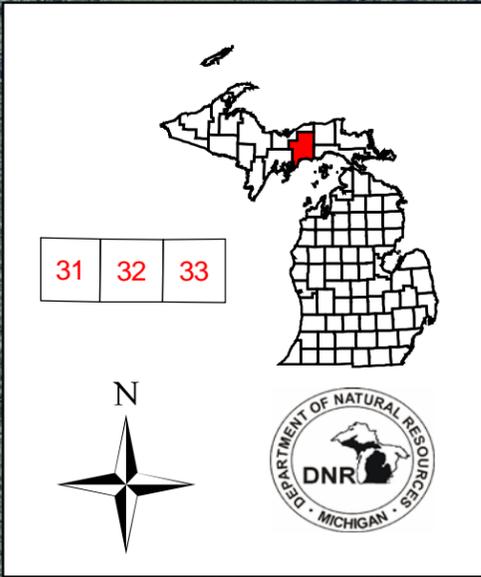
<b>Legend</b>	
— Miris Corners	<b>Forest Stands</b>
+ Remonumented Section Corners	Level 3
○ State Highway	413 - Aspen Types
— Highway	421 - Planted Pines
— Paved Roads	422 - Natural Pines
- - - Poor Dirt Roads	423 - Other Upland Conifers
— Railroads	429 - Mixed Upland Conifers
— Intermittent Stream/Drain	431 - Upland Mixed Forest
— Stream	611 - Lowland Deciduous Forest
— Lakes and Rivers	612 - Lowland Coniferous Forest
— State Forest Land	613 - Lowland Mixed Forest
	<b>Non-Forest Stands</b>
	Level 3
— Clearcut (w/Reserves, Patch/Strip)	310 - Herbaceous Openland
— Planting (tree species)	330 - Low-Density Trees
— Other Treatment - See Comments	500 - Water
	622 - Lowland Shrub

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



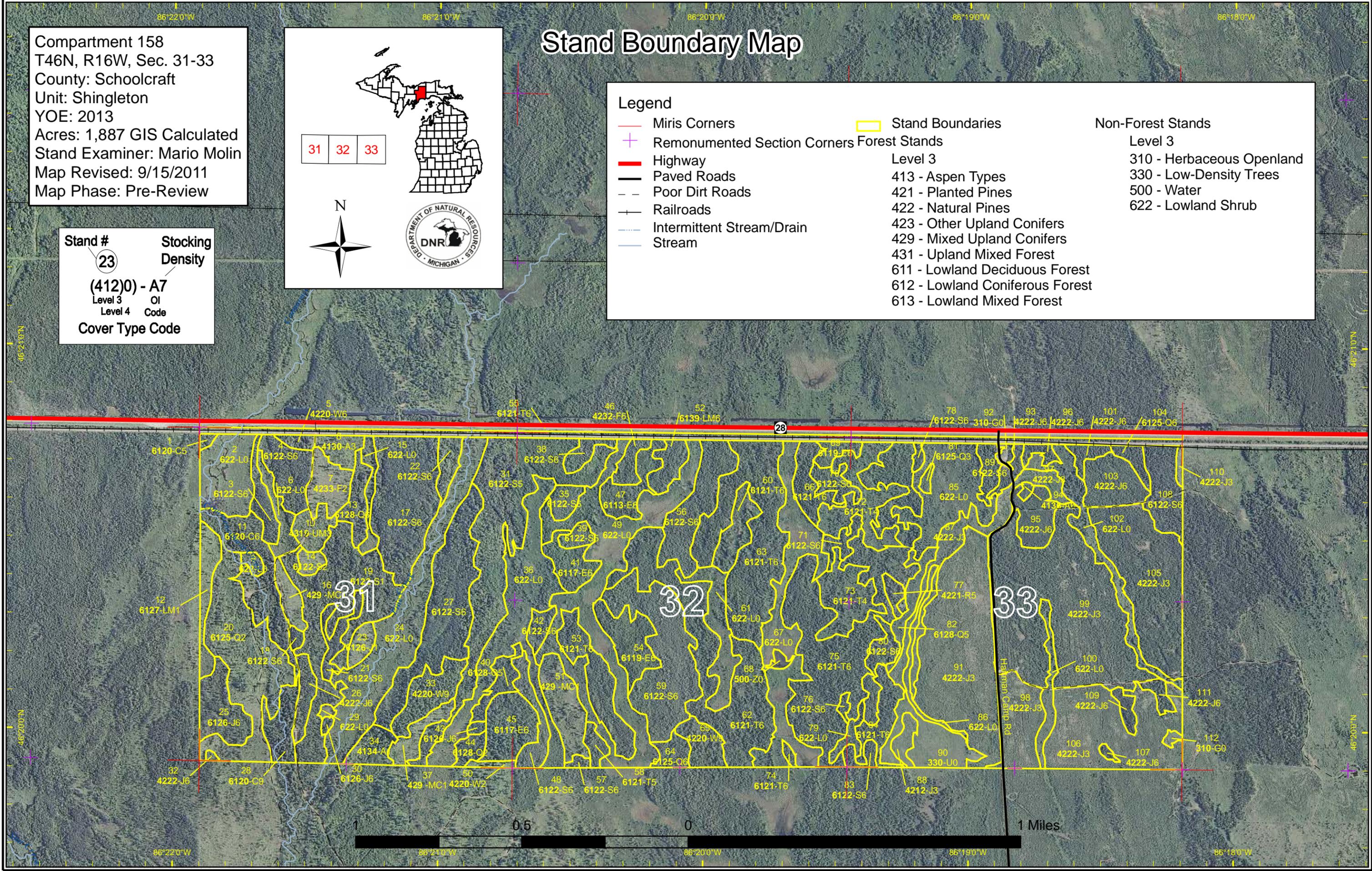
# Stand Boundary Map

Compartment 158  
 T46N, R16W, Sec. 31-33  
 County: Schoolcraft  
 Unit: Shingleton  
 YOE: 2013  
 Acres: 1,887 GIS Calculated  
 Stand Examiner: Mario Molin  
 Map Revised: 9/15/2011  
 Map Phase: Pre-Review



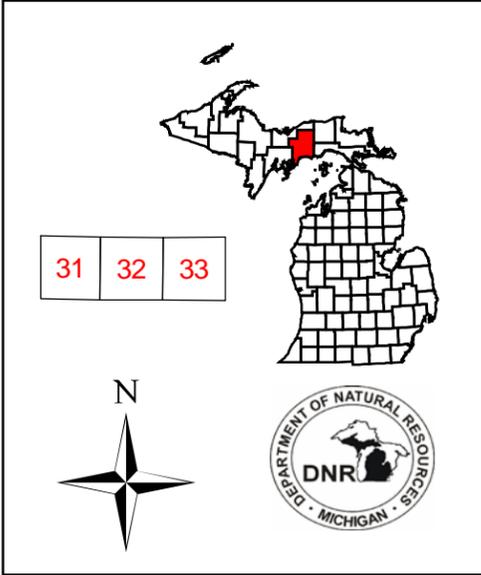
Legend		Stand Boundaries	Non-Forest Stands
—	Miris Corners	□	Level 3
+	Remonumented Section Corners	□	Level 3
—	Highway	□	310 - Herbaceous Openland
—	Paved Roads	□	330 - Low-Density Trees
- -	Poor Dirt Roads	□	500 - Water
—	Railroads	□	622 - Lowland Shrub
—	Intermittent Stream/Drain	□	
—	Stream	□	

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



# Dedicated & Proposed Special Conservation Area Map

Compartment 158  
 T46N, R16W, Sec. 31-33  
 County: Schoolcraft  
 Unit: Shingleton  
 YOE: 2013  
 Acres: 1,887 GIS Calculated  
 Stand Examiner: Mario Molin  
 Map Revised: 9/15/2011  
 Map Phase: Pre-Review



Legend		Forest Stands	Non-Forest Stands
—	Miris Corners	Level 3	Level 3
+	Remonumented Section Corners	413 - Aspen Types	310 - Herbaceous Openland
□	Stand Boundaries	421 - Planted Pines	330 - Low-Density Trees
⋯	Proposed Special Conservation Areas	422 - Natural Pines	500 - Water
⋯	SCA - Special Conservation Area	423 - Other Upland Conifers	622 - Lowland Shrub
⋯	SCA Removal	429 - Mixed Upland Conifers	
		431 - Upland Mixed Forest	
		611 - Lowland Deciduous Forest	
		612 - Lowland Coniferous Forest	
		613 - Lowland Mixed Forest	

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

