



Shingleton Forest Management Unit
Compartment Review Presentation
Compartment # 87 **Entry Year: 2013**
Compartment Acreage: 1763 **County: Schoolcraft**

Revision Date: 8/22/11

Stand Examiner: Bob Burnham

Legal Description: T41N R17W Sec 31,32,33

RMU (if applicable):

Management Goals: The main goal in this compartment is to conduct multiple resource management for the good of the citizens of the State of Michigan.

Soil and Topography: The soils in this compartment mainly consist of Wallace and Wallace Sands and Carbondale. The terrain is flat to rolling.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Ownership in the compartment is fairly contiguous; there is only one private block in the compartment most of which is an old Township Cemetery. This compartment is the furthest westerly compartment to what is commonly termed the Thompson Plains which is mainly all state land. The Hiawatha National Forest borders on the west.

Unique, Natural Features:

Archeological, Historical, and Cultural Features: Section 33 contains the Old Inwood Township Cemetery.

Special Management Designations or Considerations: The compartment is within the Garden Thompson Plain Management Area. The area around Michaud and Tighe Lakes is part of an Intermittent Wetland ERA. A portion of the compartment is also considered a Deeryard.

Watershed and Fisheries Considerations: Tighe Lake is within compartment 087. No treatments are prescribed near Tighe Lake for YOE 2013.

Wildlife Habitat Considerations: This compartment is contained with the Escanaba/Door Peninsula ecological sub-subsection. The growing season is 140 days. Extreme minimum temperatures are around -35 degrees F. Annual average snowfall is 70 inches. General Land Office (GLO) Surveyor notes indicate the ridges, in the western portion of the compartment, contained with a larger lowland complex held primarily hemlock forests. Other species recorded from those ridges include balsam fir and spruce. Meanwhile, the surrounding lowlands were dominated by cedar but also held tamarack, birch, red maple, and white pine. Further to the east upland stands varied. Some stands contained hemlock, white birch, red maple and beech while others were a mixture of jack, white, and red pine, yellow birch, and oak. Windthrow and wild fire were the primary forms of natural disturbance. Portions of this compartment continue to exhibit characteristics to those found during presettlement times. Although the age and structure are likely different, there are several hemlock, white pine, and lowland conifer stands that undoubtedly contain a species mix similar to circa 1850. However, the east side of the compartment has been converted largely to pine plantations and aspen stands. Wildlife habitat objectives include maintaining the hemlock component,

providing age and structural diversity between aspen stands, and protecting the closed-canopy lowland coniferous forest. Gray wolves (Federal and Michigan endangered) have been sighted in this vicinity. No other sensitive species have been recorded. Other species of interest include chestnut-sided warbler, American redstart, red-backed vole and short-tailed shrew.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between 10 and 50 feet. The Silurian Manistique and Burnt Bluff Groups subcrop below the glacial drift. These rocks are quarried for stone. Surface or near surface stone is quarried on private land in Section 8, 3 miles north, for the limited production of dimension building stone and decorative stone. A gravel pit is located one mile to the northeast and there may be some potential. There is no commercial oil and gas production in the UP.

Vehicle Access: With the exception of section 31 there are numerous two-tracks within the compartment and US-2, the Upper Peninsula's main trunk line runs the entire north edge.

Survey Needs: None

Recreational Facilities and Opportunities: There is a snowmobile trail that runs along the west edge of the compartment into the town of Cooks. The area is heavily used by sportsman mainly hunters due to good high ground access and relatively good cover for game birds and deer.

Fire Protection: The area has good access and is relatively close for fire response.

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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	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	79	54	236	0	0	0	0	0	0	0	0	0	0	9	377
Bog	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Cedar	0	0	0	0	0	0	0	0	0	58	0	0	0	0	0	58
Hemlock	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	10
Herbaceous Openland	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Jack Pine	0	0	0	12	4	0	0	0	0	0	0	0	0	0	0	16
Lowland Aspen/Balsam Poplar	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	26
Lowland Conifers	0	0	29	0	0	0	0	0	34	150	0	17	0	0	0	230
Lowland Deciduous	0	30	0	32	0	0	0	0	0	0	0	0	0	0	0	62
Lowland Mixed Forest	0	35	0	35	0	0	0	0	4	19	0	0	0	0	0	93
Lowland Shrub	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	19	16	0	0	0	0	0	35
Marsh	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Mixed Upland Deciduous	0	0	0	5	0	0	0	0	30	21	0	0	0	0	0	56
Natural Mixed Pines	0	0	0	0	5	0	0	0	0	11	0	0	0	0	0	16
Northern Hardwood	0	0	0	0	0	0	0	0	26	8	0	0	0	0	0	35
Oak	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	7
Red Pine	0	0	46	30	0	0	0	196	0	0	0	0	0	0	0	272
Tamarack	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	8
Treed Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Conifers	0	0	89	24	0	0	5	0	0	0	0	5	0	0	0	123
Upland Mixed Forest	0	0	17	105	0	0	0	25	0	19	0	0	0	0	0	167
Upland Shrub	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Upland Spruce/Fir	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
Urban	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Water	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37



	Age Class															
	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	Total
Total	170	144	239	505	10	0	5	221	128	302	0	32	0	0	9	1763



Table 2 – Proposed Treatment Summaries

Shingleton Mgt. Unit
Year of Entry 2013

Compartment 087
Total Compartment Acres: 1763

Acres by Treatment Type

Commercial Harvest - 343	Site Prep - 0	Tree Planting - 8	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
Lowland Conifers	71	0	0	0	0	0	71
Lowland Spruce/Fir	16	0	0	0	0	0	16
Mixed Upland Deciduous	20	0	0	0	0	0	20
Red Pine	0	0	0	0	196	0	196
Upland Conifers	5	0	0	0	0	0	5
Upland Mixed Forest	36	0	0	0	0	0	36
Total	147	0	0	0	196	0	343



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
12	41087012-Cut	7.2	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	85	Harvest	Clearcut with Reserves	4113 - R.Maple, Conifer	Cmpt. Review Proposal
<u>Prescription:</u> Clear-cut stand leaving cedar and hemlock if the exist, retention will be on the south side (the ridge). Green tree a few birch. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> Burn stand and broadcast pelletized seed with WLD funding. Acceptable regen will be a mix of current species if seeding fails. <u>Steps:</u>									
28	41087028-Cut	6.5	6122 - Black Spruce	High Density Pole	88	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
<u>Prescription:</u> Cedar patches should be left for retention, they will likely blowdown but that is ok. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> Examine regen at next oi cycle. Acceptable regen is a mix of current species. <u>Steps:</u>									
29	41087029-Cut	19.1	4319 - Mixed Upland Forest	High Density Pole	81	Harvest	Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal
<u>Prescription:</u> Stand is a mix of upland and lowland, the upland is predominantly maple, birch and pine; the lowland is a mix of hemlock, cedar. The birch and <u>Specs:</u> aspen are in decline. Stand needs to be cut. Retention should be patches of hemlock and cedar as well as some super canopy white pine. <u>Other</u> <u>Comments:</u> <u>Next</u> Examine regen at the next oi cycle, acceptable regen is a mix of the current species. <u>Steps:</u>									
30	41087030-Cut	61.4	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	81	Harvest	Clearcut with Reserves	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription:</u> Stand is a real mix of species, there are a few ridges within stand but mostly low, there are also areas of blowdown which is why the slash button <u>Specs:</u> is checked. Harvest stand, leave cedar and hemlock, if they occur in pockets make them retention pockets. <u>Other</u> <u>Comments:</u> <u>Next</u> Examine regen at next oi cycle, acceptable regen is a mix of the current species. <u>Steps:</u>									
43	41087043-Cut	12.8	4199 - Other Mixed Upland Deciduous	High Density Log	77	Harvest	Clearcut with Reserves	4199 - Other Mixed Upland Deciduous	Cmpt. Review Proposal
<u>Prescription:</u> Stand needs to be cut, buffer drainages as retention. Leave all hemlock. There is a patch on east that may be a good place for retention. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> Examine regeneration at next oi cycle, acceptable regen is a mix of the current species. <u>Steps:</u>									



Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
51	41087051-Cut	4.6	429 - Mixed Upland Conifers	High Density Log	101	Harvest	Clearcut with Reserves	429 - Mixed Upland Conifers	Cmpt. Review Proposal
<p><u>Prescription:</u> Stand is mostly hemlock on the south end and middle, the edges have aspen and maple and the north end is spruce/fir birch. However, most of the aspen and birch is dying or already dead. <u>Specs:</u> Leave all hemlock.</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> Examine stand at next oi cycle, acceptable regen is a mix of teh current species cut.</p>									
55	41087055-Cut	9.7	6122 - Black Spruce	High Density Pole	84	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
<p><u>Prescription:</u> Clear cut stand and leave the south end as retention. <u>Specs:</u></p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> Examine regen at next oi cycle, acceptable regen is a mix of the current species.</p>									
74	41087074-Cut	16.5	4319 - Mixed Upland Forest	High Density Pole	68	Harvest	Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal
<p><u>Prescription:</u> Harvest stand leave some white pine and white spruce for seed. Leave Retention patches around wet areas. Also leave cedar. <u>Specs:</u></p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> Examine regen at next oi cycle, acceptable regen is any of the current species mix.</p>									
84	41087084-Cut	9.3	6127 - Lowland Pine	Medium Density Pole	70	Harvest	Clearcut with Reserves	6127 - Lowland Pine	Cmpt. Review Proposal
<p><u>Prescription:</u> Cut stand retain some windfirm red and white pine. Stand is quite low, winter cut. <u>Specs:</u></p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> Examine stand during next oi cycle, acceptable regen is a mix of the current species.</p>									
105	41087105-Cut	195.7	42110 - Planted Red Pine	High Density Pole	61	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription:</u> Mark stand to approximately 120 square feet leaving all other species unless they need to be removed for access. <u>Specs:</u></p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> none</p>									

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	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
98	41087098-Plant	8.1	42110 - Planted Red Pine	Medium Density Saplin	13	Tree Planting	Hand Plant	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription. Interplant stand with red pine also release if necessary. FTP C41-1101

Specs:

Other

Comments:

Next plant and release

Steps:

**Total Treatment
Acreage Proposed: 351.1**

**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
41022_OutOfY OE-Cut	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 Comments:</u> Do not cut any trees within 50 feet of the West Branch Manistique River.								
<u>Next Steps:</u> Thin next year of entry.								
41049_OutOfY OE_1-Cut	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 Comments:</u> Access to stand is too difficult for continuous thinning.								
<u>Next Steps:</u> Regeneration walkthrough during next inventory cycle. Acceptable regeneration includes any species mixture currently found onsite.								
41053_OutOfY OE-Cut	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 Comments:</u> Access to stand is too difficult for continuous thinning.								
<u>Next Steps:</u> Regen walkthrough during next inventory cycle. Acceptable regeneration includes any species mixture currently found onsite.								
Total Treatment Acreage Proposed:		50.5						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6132 - Mixed Lowland Forest with Cedar	Medium Density Pole	2.5	89		
3	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	5.9	89		
5	6139 - Mixed Lowland Forest	Medium Density Pole	3.7	76		
6	6130 - Fir, Aspen, Maple	Medium Density	7.3	6		
7	4134 - Aspen, Spruce/Fir	High Density Sapling	30.1	24		
8	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density	21.4	6		
9	6122 - Black Spruce	High Density Pole	18.5	74		
10	42390 - Mixed Non-Pine Upland Conifers	High Density Sapling	4.0	24		
11	6129 - Mixed Coniferous Lowland Forest	High Density Log	25.8	85		
12	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	7.2	85		
13	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	3.9	23		
14	4319 - Mixed Upland Forest	High Density Sapling	9.1	24		
15	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	28.3	21		
17	4134 - Aspen, Spruce/Fir	High Density Sapling	19.3	24		
18	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	4.9	54		
19	6129 - Mixed Coniferous Lowland Forest	High Density Pole	11.1	80		
20	4199 - Other Mixed Upland Deciduous	Medium Density Pole	4.7	25		Old G type that has filled in, in places as well as some area that was cut in 1991.

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Shingleton Mgt. Unit

5 – Forested Stands

Compartment: 087
Year of Entry: 2013

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	6132 - Mixed Lowland Forest with Cedar	High Density Log	16.5	84		
23	4112 - Maple, Beech, Cherry Association	High Density Log	14.6	76	81-110	Stand was harvested last entry Carly Corner Hardwoods, will be ready next decade
24	4112 - Maple, Beech, Cherry Association	High Density Log	2.8	70	81-110	
25	6120 - Lowland Cedar	High Density Pole	52.5	82		
26	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	3.7	79		
27	42340 - Upland Spruce/Fir	High Density Sapling	3.1	14		
28	6122 - Black Spruce	High Density Pole	6.5	88		
29	4319 - Mixed Upland Forest	High Density Pole	19.1	81	111-140	
30	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	61.4	81		
31	6130 - Fir, Aspen, Maple	High Density Sapling	28.1	7		
32	4319 - Mixed Upland Forest	High Density Sapling	10.8	13		
33	6129 - Mixed Coniferous Lowland Forest	High Density Log	16.9	105		
34	4134 - Aspen, Spruce/Fir	High Density Pole	61.4	22		
35	6112 - Lowland Aspen	High Density Pole	25.7	28		
36	4319 - Mixed Upland Forest	High Density Sapling	6.7	14		
37	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	9.5	87		
39	42350 - Upland Hemlock	High Density Log	10.2	101		
40	4319 - Mixed Upland Forest	High Density Sapling	13.1	22		

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Shingleton Mgt. Unit

5 – Forested Stands

Compartment: 087
Year of Entry: 2013

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
41	4112 - Maple, Beech, Cherry Association	High Density Log	8.5	80	81-110	
42	4113 - R.Maple, Conifer	High Density Log	8.9	73	81-110	
43	4199 - Other Mixed Upland Deciduous	High Density Log	12.8	77	81-110	
44	4134 - Aspen, Spruce/Fir	High Density Sapling	34.7	13		
45	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	19.9	78		
46	6120 - Lowland Cedar	Medium Density Pole	5.5	84		
48	42290 - Natural Mixed Pine	High Density Log	1.9	83	111-140	
49	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density	29.4	13		
51	429 - Mixed Upland Conifers	High Density Log	4.6	101		
52	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Sapling	8.7	4		
53	4130 - Aspen	High Density Pole	12.2	28		
54	42290 - Natural Mixed Pine	Medium Density Log	9.0	88		
55	6122 - Black Spruce	High Density Pole	9.7	84		
56	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	5.0	78		
57	429 - Mixed Upland Conifers	High Density Sapling	89.1	14		
58	429 - Mixed Upland Conifers	High Density Pole	20.0	26		
59	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Log	4.5	88		

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Shingleton Mgt. Unit

5 – Forested Stands

Compartment: 087
Year of Entry: 2013

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
64	6121 - Tamarack	Low Density Pole	8.1	78		Stand is much like an L type but there are enough trees to make 25%
65	6125 - Lowland Black Spruce, Jack Pine	High Density Pole	9.6	82		
66	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	11.8	82	1-50	
67	4136 - Aspen, Mixed Conifer	High Density Sapling	40.1	25		
68	4199 - Other Mixed Upland Deciduous	High Density Log	1.8	81		
70	6130 - Fir, Aspen, Maple	High Density Pole	19.4	27		
72	4191 - Mixed Upland Deciduous with Conifer	High Density Log	13.7	72		
74	4319 - Mixed Upland Forest	High Density Pole	16.5	68		
76	6129 - Mixed Coniferous Lowland Forest	Medium Density Log	22.3	89		
78	4133 - Aspen, Mixed Pine	High Density Pole	17.6	27		
80	4130 - Aspen	High Density Sapling	9.3	16		
81	6139 - Mixed Lowland Forest	Medium Density Pole	15.3	26		
83	4319 - Mixed Upland Forest	High Density Pole	12.6	26		
84	6127 - Lowland Pine	Medium Density Pole	9.3	70		
85	4123 - Red Oak	Medium Density Log	6.5	78		
89	4130 - Aspen	High Density Sapling	78.5	6		
90	4311 - Pine, Aspen Mix	High Density Pole	13.7	25		
91	4130 - Aspen	High Density Sapling	18.3	23		

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Shingleton Mgt. Unit

5 – Forested Stands

Compartment: 087
Year of Entry: 2013

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
92	4132 - Aspen, Jack Pine	High Density Sapling	9.1	Uneven Age		
93	42110 - Planted Red Pine	High Density Sapling	23.3	13		
94	4311 - Pine, Aspen Mix	High Density Log	8.3	68		
96	4311 - Pine, Aspen Mix	High Density Pole	50.0	22		
97	42220 - Natural Jack Pine	Medium Density Pole	4.4	33		
98	42110 - Planted Red Pine	Medium Density	8.1	13		Middle of stand needs to be planted
99	42110 - Planted Red Pine	High Density Pole	5.4	24	111-140	Stand is a Sesquicentennial Plantation
100	42110 - Planted Red Pine	High Density Sapling	4.8	22		
101	4130 - Aspen	High Density Sapling	11.1	23		
102	4130 - Aspen	High Density Sapling	9.6	13		
103	4319 - Mixed Upland Forest	High Density Pole	6.4	26		
105	42110 - Planted Red Pine	High Density Pole	195.7	61	141-170	
106	42220 - Natural Jack Pine	High Density Pole	12.1	24		
107	4136 - Aspen, Mixed Conifer	High Density Pole	25.4	28		
108	42110 - Planted Red Pine	High Density Sapling	5.2	22		
109	42110 - Planted Red Pine	High Density Pole	12.8	24	81-110	
110	42110 - Planted Red Pine	High Density Sapling	8.1	13		
111	42110 - Planted Red Pine	High Density Sapling	6.6	13		

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Shingleton Mgt. Unit

5 – Forested Stands

Compartment: 087
Year of Entry: 2013



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
112	42110 - Planted Red Pine	High Density Sapling	2.3	22		
113	42290 - Natural Mixed Pine	Low Density Pole	5.2	33		



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	310 - Herbaceous Openland	1.7	N/A	Unspecified	
4	122 - Road/Parking Lot	3.9	N/A	Unspecified	
16	310 - Herbaceous Openland	12.5	N/A	Unspecified	
22	320 - Upland Shrub	15.2	N/A	Unspecified	
38	622 - Lowland Shrub	22.2	Yes	Unspecified	
47	6224 - Treed Bog	3.3	N/A	Unspecified	
50	622 - Lowland Shrub	8.0	N/A	Unspecified	
60	622 - Lowland Shrub	5.2	N/A	Unspecified	
61	623 - Emergent Wetland	1.2	N/A	Unspecified	
62	6225 - Bog	11.5	N/A	Unspecified	
63	50 - Water	2.7	N/A	Unspecified	
69	50 - Water	1.8	N/A	Unspecified	
71	622 - Lowland Shrub	2.8	N/A	Unspecified	
73	50 - Water	15.6	N/A	Unspecified	
75	122 - Road/Parking Lot	29.4	N/A	Unspecified	
77	50 - Water	8.4	N/A	Unspecified	
79	6225 - Bog	6.6	N/A	Unspecified	
82	623 - Emergent Wetland	1.5	N/A	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
86	50 - Water	1.5	N/A	Unspecified	
87	6225 - Bog	2.7	N/A	Unspecified	
88	623 - Emergent Wetland	2.6	N/A	Unspecified	
95	50 - Water	7.0	N/A	Unspecified	
104	623 - Emergent Wetland	2.4	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



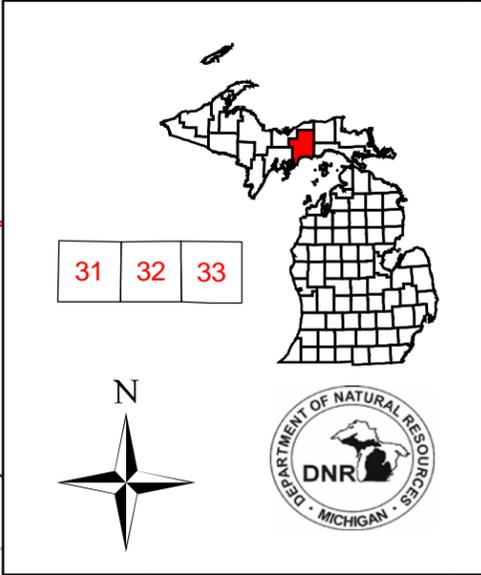
8 – DEDICATED CONSERVATION AREA DETAILS

* 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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.

Compartment 87
 T41N, R17W, Sec. 31-34
 County: Schoolcraft
 Unit: Shingleton
 YOE: 2013
 Acres: 1,763 GIS Calculated
 Stand Examiner: Bob Burnham
 Map Revised: 9/15/2011
 Map Phase: Pre-Review



Cover Type & Treatment Map

Legend

- Miris Corners
- Remonumented Section Corners
- US Highway
- Highway
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Railroads
- Snowmobile Trails
- Trail Designation
- Snowmobile Trail
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- Power
- State Forest Land
- Treatments
- Clearcut (w/Reserves, Patch/Strip)
- Thinning (Crown, Low, Systematic)
- Planting (tree species)

Forest Stands

Level 3

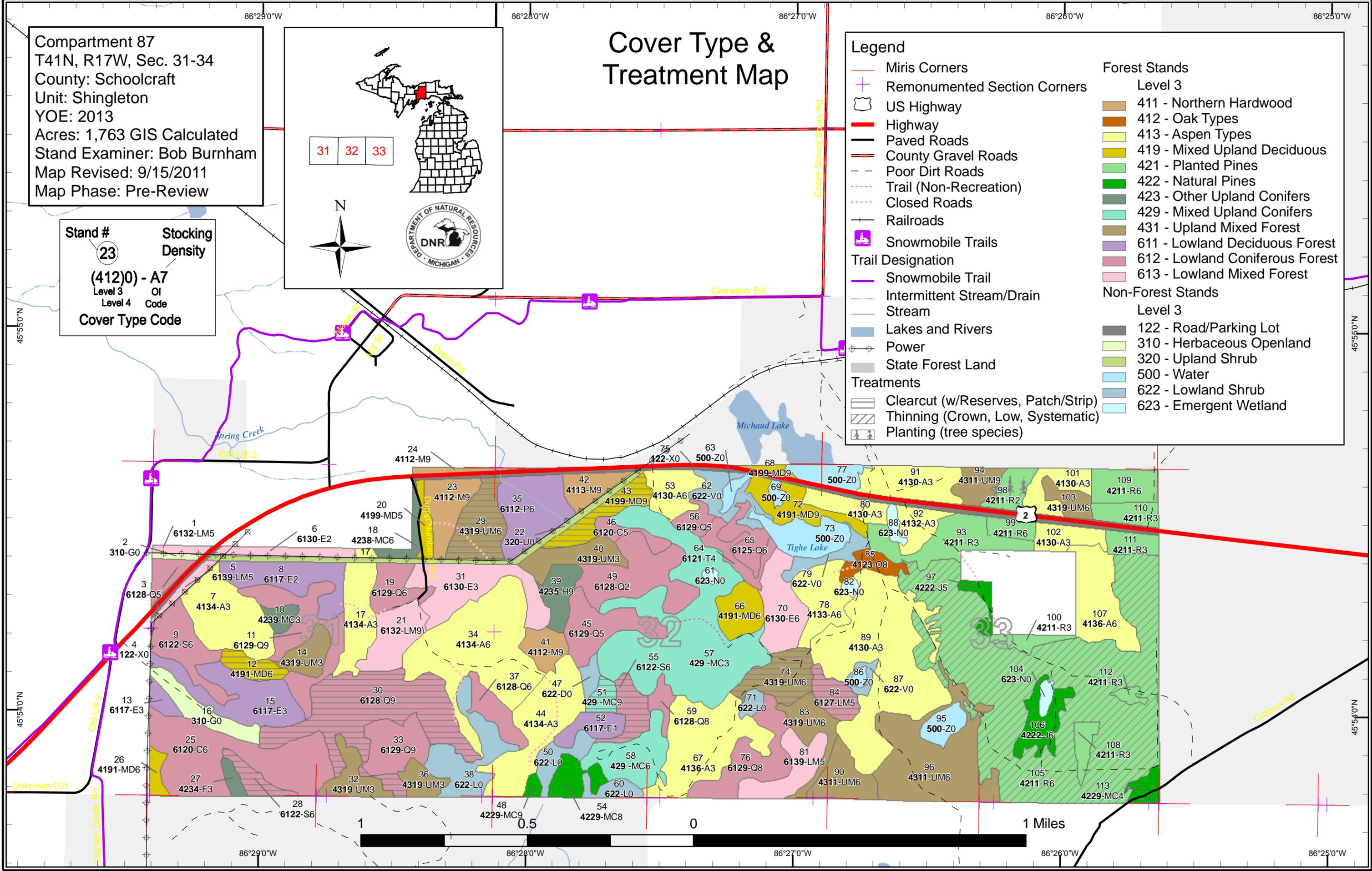
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

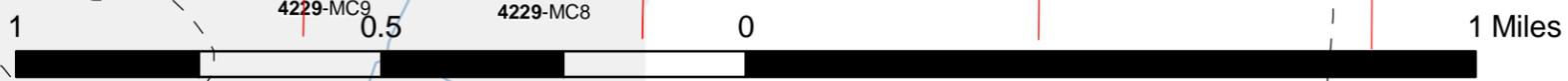
Level 3

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

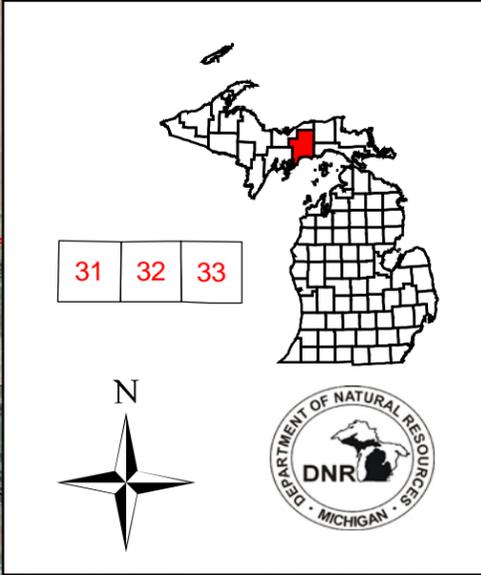
Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



31 32 33



Compartment 87
 T41N, R17W, Sec. 31-34
 County: Schoolcraft
 Unit: Shingleton
 YOE: 2013
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 Stand Examiner: Bob Burnham
 Map Revised: 9/15/2011
 Map Phase: Pre-Review



Stand Boundary Map

Legend

- Miris Corners
- Remonumented Section Corners
- US Highway
- Highway
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Snowmobile Trails
- Trail Designation**
- Snowmobile Trail
- Power
- Railroads
- Intermittent Stream/Drain
- Stream
- Stand Boundaries

Forest Stands

Level 3

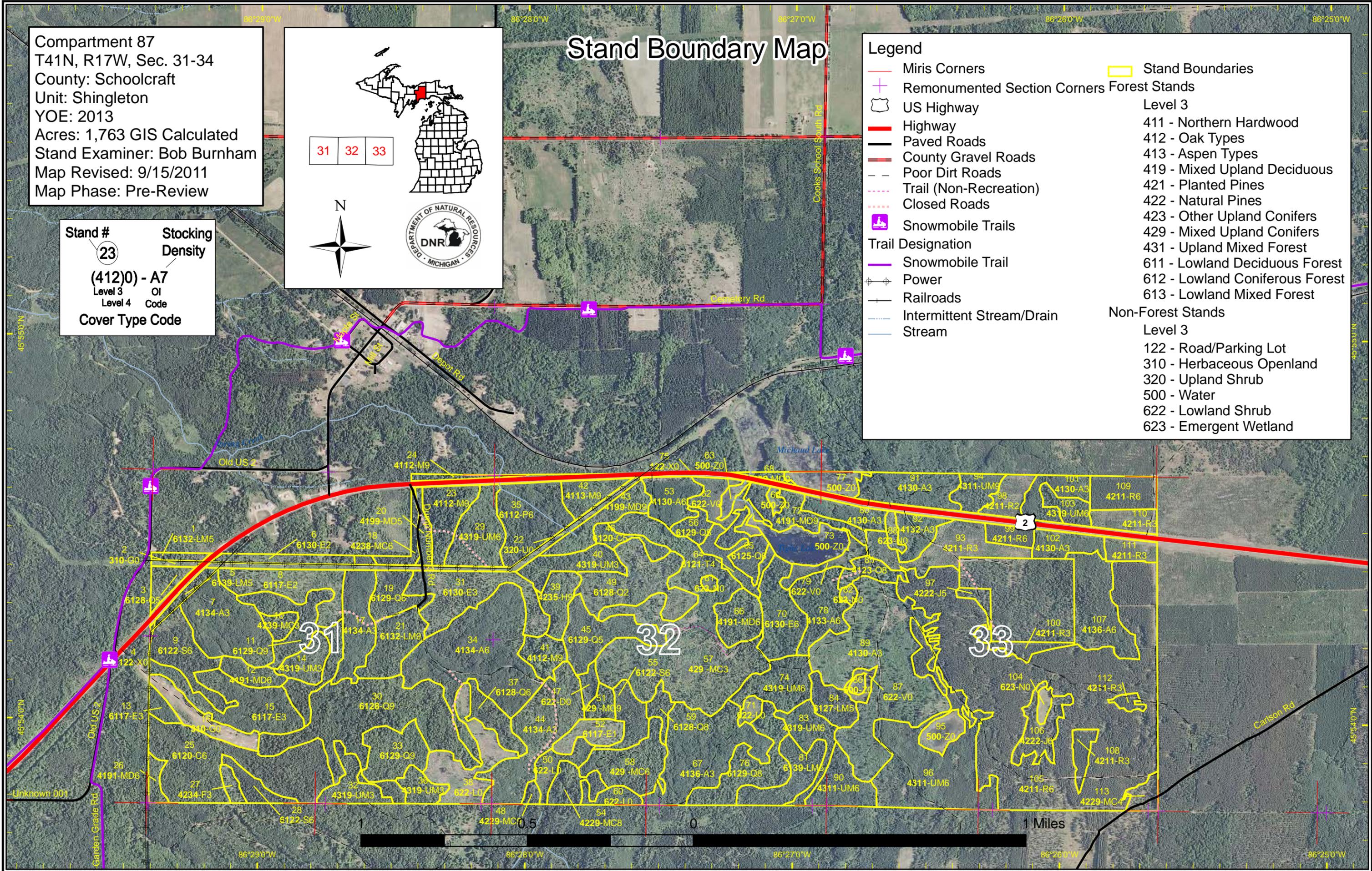
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

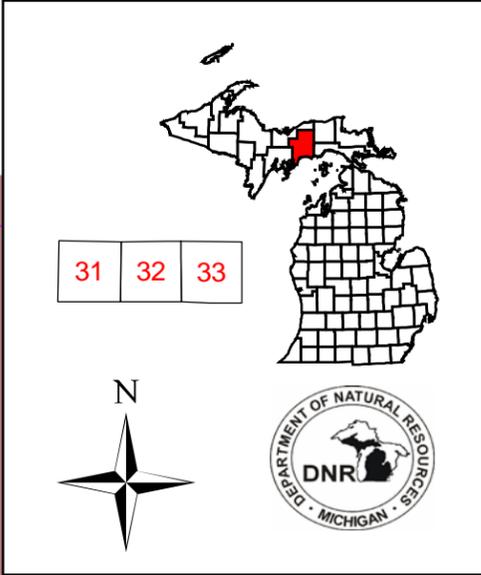
Level 3

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

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



Compartment 87
 T41N, R17W, Sec. 31-34
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 Stand Examiner: Bob Burnham
 Map Revised: 9/15/2011
 Map Phase: Pre-Review



Dedicated & Proposed Special Conservation Area Map

Legend

- Miris Corners
- + Remonumented Section Corners
- Proposed Special Conservation Areas
 - ▨ SCA - Special Conservation Area
 - ▨ SCA Removal
- Dedicated Special Conservation Areas
 - Cold Water Streams
 - Ecological Reference Areas
 - Deer Wintering Areas
- Stand Boundaries
- Forest Stands
 - Level 3
 - 411 - Northern Hardwood
 - 412 - Oak Types
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 429 - Mixed Upland Conifers
 - 431 - Upland Mixed Forest
 - 611 - Lowland Deciduous Forest
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 - Non-Forest Stands
 - Level 3
 - 122 - Road/Parking Lot
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 - 320 - Upland Shrub
 - 500 - Water
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland

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

