



# Compartment Review Presentation

## Shingleton Forest Management Unit

Compartment 107

Entry Year 2016

Acreage: 2,564

County Schoolcraft

Management Area: Danaher Kingston Outwash

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**Revision Date:** 02/21/2014

**Stand Examiner:** Rick James Hill

### **Legal Description:**

T47N R13W Sections 22, 23, 27, 34

### **Identified Planning Goals:**

The Kingston Plains and the Danaher Plains are large openings that are managed for a suite of open-land species including sharp-tailed grouse, merlin and upland sandpiper. Vegetative management in the Danaher Kingston Outwash management area will emphasize maintaining these large opening complexes; providing timber products; protecting unique areas and threatened, endangered and special concern species; and providing for forest based recreational uses. Wildlife habitat management objectives include enhancing the large opening complexes and providing opportunities for hunting and other wildlife related recreation. Timber management objectives include improving the age-class distribution of jack pine and red pine; and consolidating smaller plantations and openings into larger stands to better suit management objectives. Expected issues in this 10-year planning period include illegal use of off-road vehicles, introduced pests and diseases such as jack pine budworm and beech bark disease, and introduction and spread of invasive species.

### **Soil and topography:**

The majority of the compartment is level ground. The terrain changes near Clear Creek are of steep banks sloping into the creek. There is also some lowland ground near the south of the compartment. The majority of the soil is Rubicon sands that are fair in natural fertility. Muck and peat soils appear near the swamp and bog stands.

### **Ownership Patterns, Development, and Land Use in and Around the Compartment:**

There is no private land within the compartment boundaries. The majority of the surrounding land is still State of Michigan owned.

### **Unique Natural Features:**

No Unique Natural Features known.

### **Archeological, Historical, and Cultural Features:**

No Archeological, Historical, or Cultural Features known.

### **Special Management Designations or Considerations:**

None

### **Watershed and Fisheries Considerations:**

Excellent. Clear Creek is a designated trout, cold-water tributary of the East Branch of the Fox River. Preventing encroachment by beaver and protecting against stream sedimentation are high priorities.

### **Wildlife Habitat Considerations:**

This compartment lies within the eastern portion of a large opening complex corridor that extends east to west across north Schoolcraft County. The majority of the compartment is upland sandy plains. The original surveyor's notes indicate that the pre-settlement land cover consisted primarily of white pine, hemlock, red maple, yellow birch, and American beech. Mountain ash was a significant component in the understory.

Current vegetation is substantially different from pre-settlement conditions. Grassy openings and pine (red and jack) plantations now dominate the compartment.

Wildlife habitat objectives consist primarily of re-aligning the plantations and grassy openings into more consolidated blocks to better facilitate both the forest associated and the open land wildlife species. In addition, soft mast producing shrubs will be encouraged.

### **Mineral Resource and Development Concerns and/or Restrictions**

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. There is insufficient data to determine the glacial drift thickness. The Ordovician Utica and Collingwood Shales and the Trenton Group subcrop below the glacial drift. The Trenton is quarried for stone/dolomite. Gravel pits are not found in the general area, but there may be potential. There is no commercial oil and gas production in the UP.

**Vehicle Access:**

Access is very good in the compartment. There is a large network of drivable two-tracks through all sections. The main access is from M-77 north.

**Survey Needs:**

None

**Recreational Facilities and Opportunities:**

The Seney Snowmobile Club has a main snowmobile trail through the compartment that leads north and east. The Danaher ORV trail is also located in the south part of section 34.

**Fire Protection:**

The compartment contains many mature pine plantations. Slash fuel loads in the understory of the pine plantations following proposed treatments could challenge fire control efforts. The open areas within the compartment are mainly grass with few conifer trees filling in. Access is good.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

**The following information is displayed, where pertinent, on the attached compartment maps:**

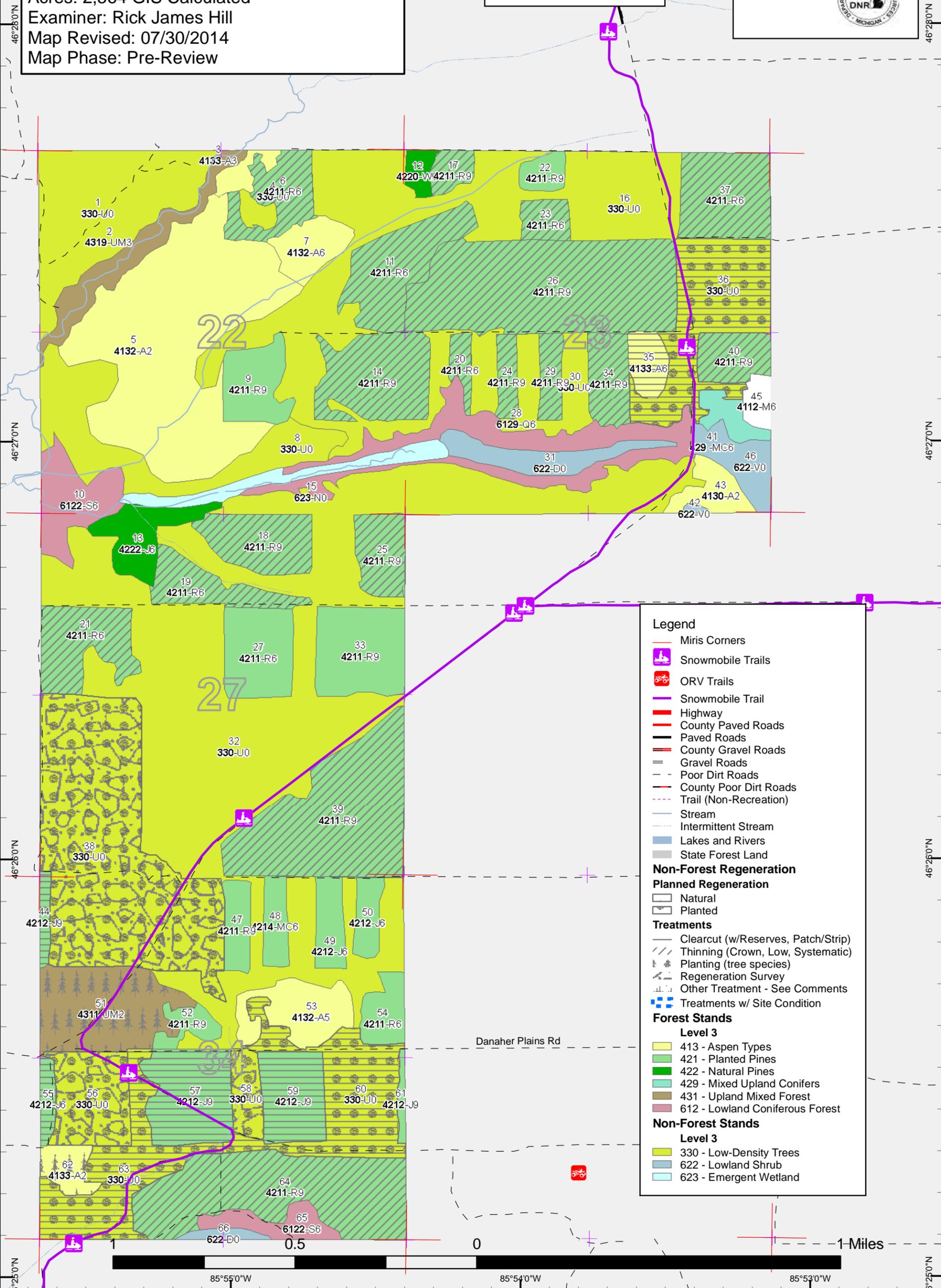
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Compartment: 107  
 T47N R13W  
 22 23 27 34  
 County: Schoolcraft  
 Unit: Shingleton  
 Management Area: Danaher Kingston Outwash  
 YOE: 2016  
 Acres: 2,564 GIS Calculated  
 Examiner: Rick James Hill  
 Map Revised: 07/30/2014  
 Map Phase: Pre-Review

# Cover Type & Treatment Map

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

22 23  
 27 34



### Legend

- Miris Corners
- Snowmobile Trails
- ORV Trails
- Snowmobile Trail
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

### Non-Forest Regeneration

Planned Regeneration

- Natural
- Planted

### Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Thinning (Crown, Low, Systematic)
- Planting (tree species)
- Regeneration Survey
- Other Treatment - See Comments
- Treatments w/ Site Condition

### Forest Stands

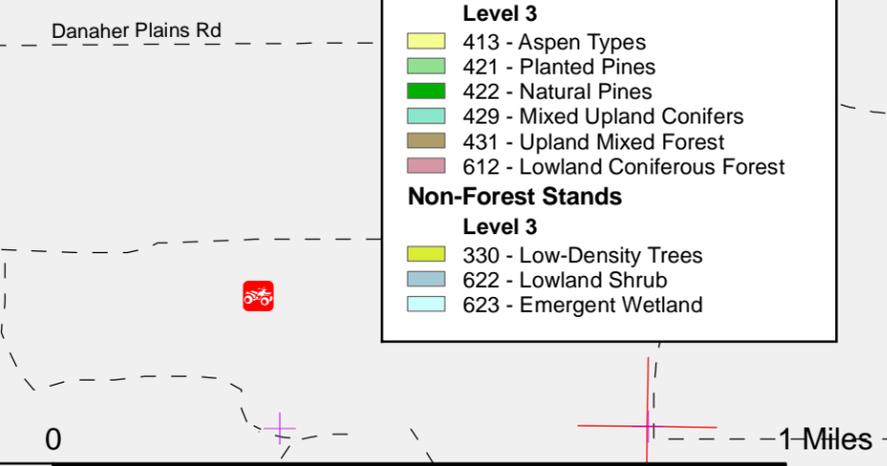
Level 3

- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

### Non-Forest Stands

Level 3

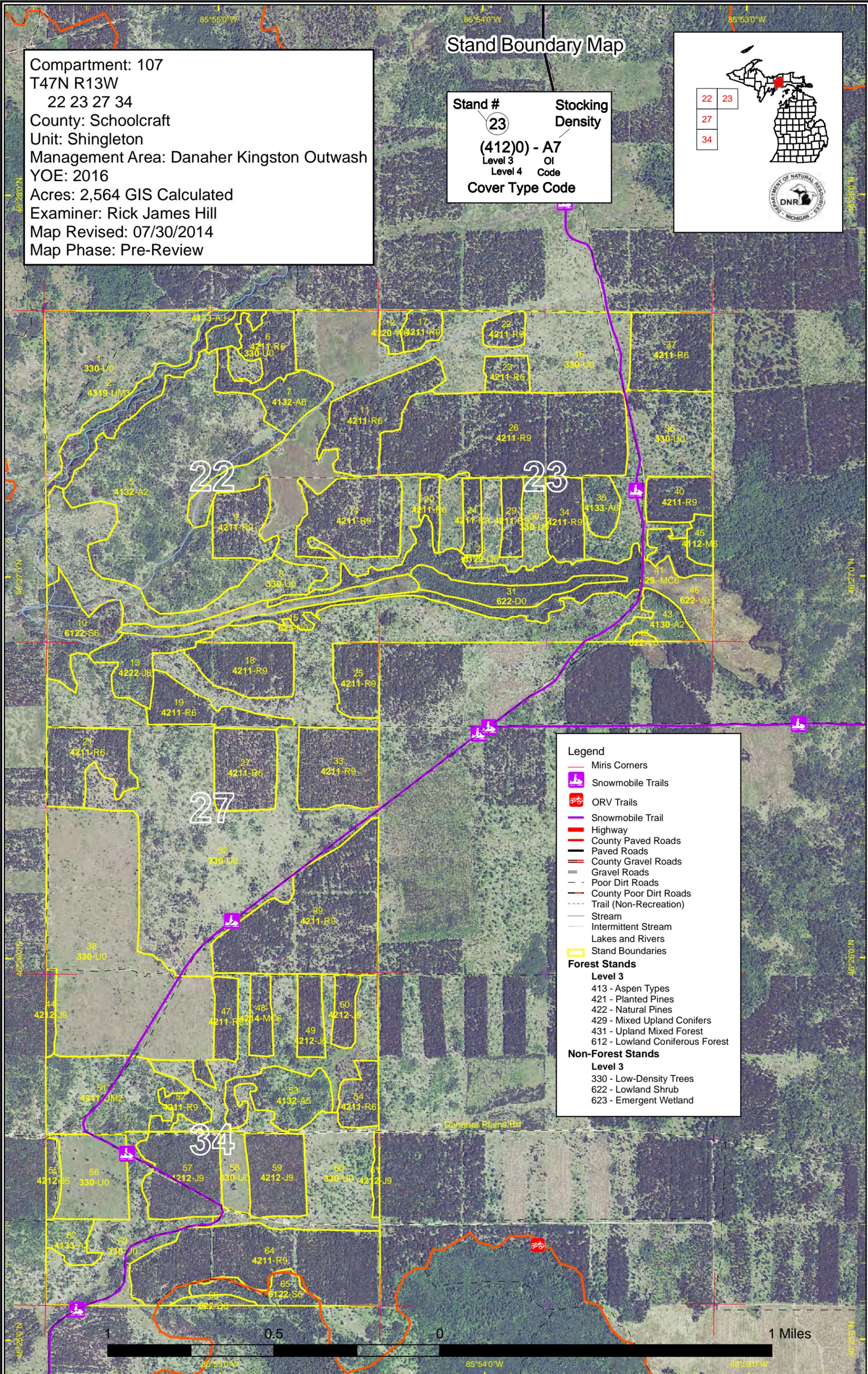
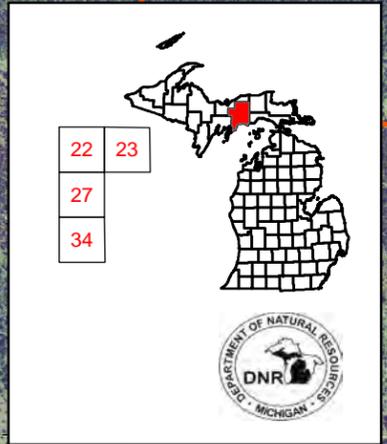
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



# Stand Boundary Map

Compartment: 107  
 T47N R13W  
 22 23 27 34  
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 YOE: 2016  
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**Stand #**  
 23  
**Stocking Density**  
 (412)0 - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**



**Legend**

- Miris Corners
- Snowmobile Trails
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- County Poor Dirt Roads
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- Stream
- Intermittent Stream
- Lakes and Rivers
- Stand Boundaries

**Forest Stands**

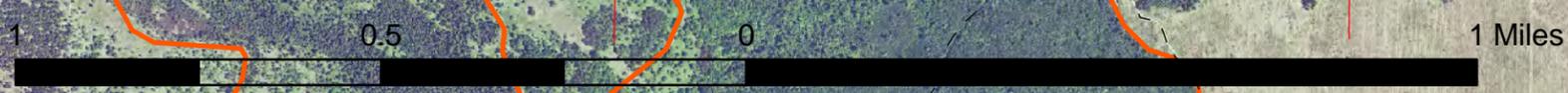
**Level 3**

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**Non-Forest Stands**

**Level 3**

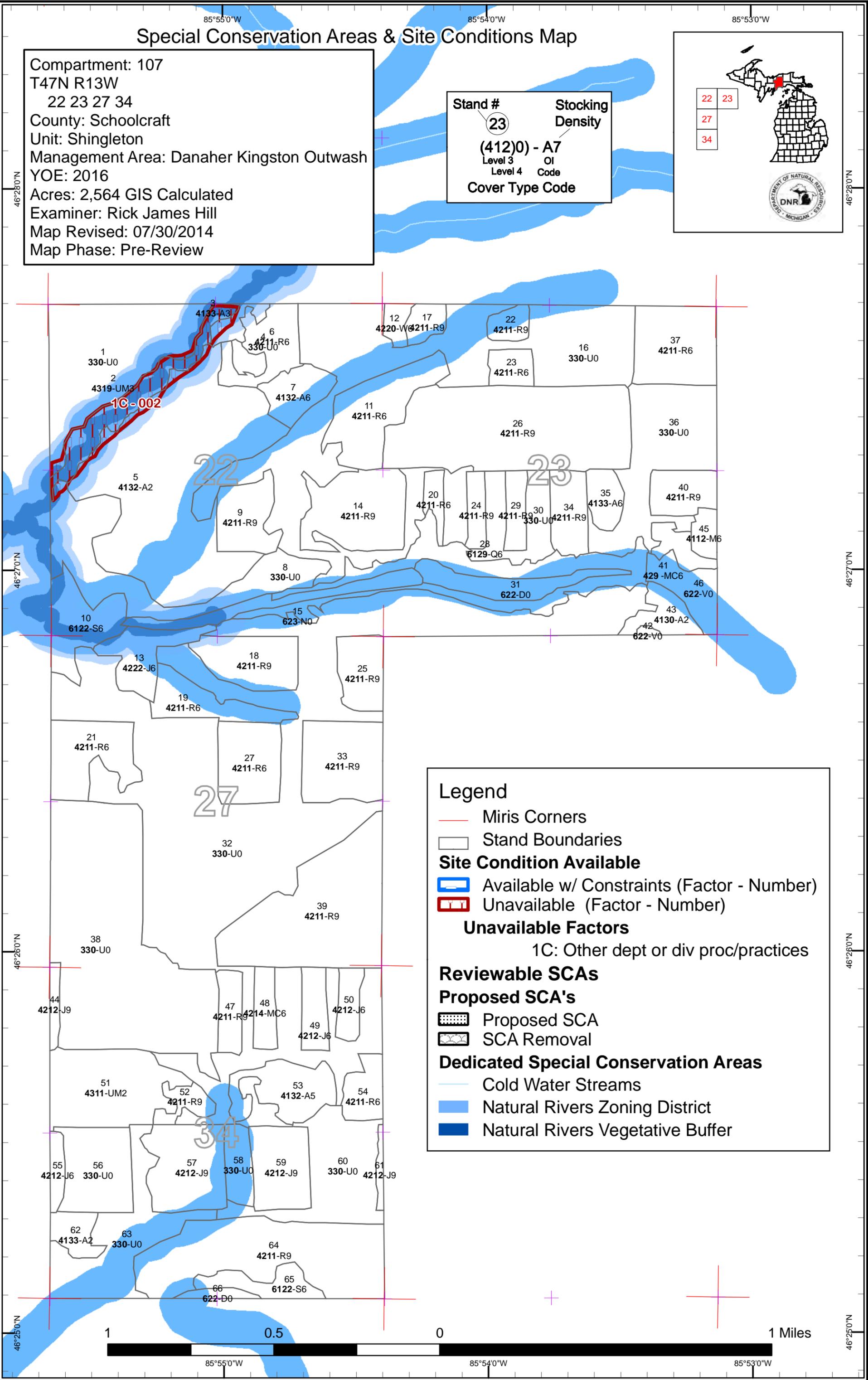
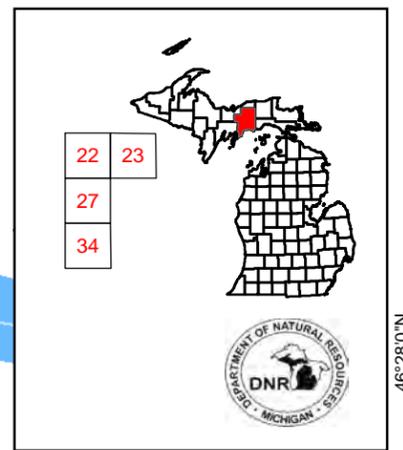
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



# Special Conservation Areas & Site Conditions Map

Compartment: 107  
 T47N R13W  
 22 23 27 34  
 County: Schoolcraft  
 Unit: Shingleton  
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 YOE: 2016  
 Acres: 2,564 GIS Calculated  
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 Map Revised: 07/30/2014  
 Map Phase: Pre-Review

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



**Legend**

- Miris Corners
- Stand Boundaries

**Site Condition Available**

- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)

**Unavailable Factors**

1C: Other dept or div proc/practices

**Reviewable SCAs**

**Proposed SCA's**

- Proposed SCA
- SCA Removal

**Dedicated Special Conservation Areas**

- Cold Water Streams
- Natural Rivers Zoning District
- Natural Rivers Vegetative Buffer

Report 1 – Total Acres by Cover Type and Age Class



	Age Class													Total	
	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +		Uneten Age
Aspen	13	0	202	27	0	11	0	0	0	0	0	0	0	0	253
Bog	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Jack Pine	0	0	0	0	43	0	80	0	0	0	0	0	0	0	123
Low-Density Trees	1170	0	0	0	0	0	0	0	0	0	0	0	0	0	1170
Lowland Conifers	0	0	0	0	0	0	59	0	0	0	0	0	0	0	59
Lowland Spruce/Fir	0	0	0	0	0	0	42	0	0	0	0	0	0	0	42
Marsh	20	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Northern Hardwood	0	0	0	0	0	7	0	0	0	0	0	0	0	0	7
Planted Mixed Pines	0	0	0	0	10	0	0	0	0	0	0	0	0	0	10
Red Pine	0	0	0	0	0	743	0	0	0	0	0	0	0	0	743
Treed Bog	24	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Upland Conifers	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9
Upland Mixed Forest	0	0	79	0	0	0	0	0	0	0	0	0	0	0	79
White Pine	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6
<b>Total</b>	<b>1246</b>	<b>0</b>	<b>281</b>	<b>27</b>	<b>54</b>	<b>759</b>	<b>87</b>	<b>111</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2564</b>



## Report 2 – Proposed Treatment Summaries

**Shingleton Mgt. Unit**  
**Year of Entry 2016**

**Compartment 107**  
**Total Compartment Acres: 2,564**

### Acres by Treatment Type

Commercial Harvest - 867    Tree Planting - 313    Other - 0  
 Habitat Cut - 6    Opening Maintenance - 666

### Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
<b>(Habitat Cut)Planted Pines</b>	0	0	0	0	6	0	6
<b>Aspen Types</b>	11	0	0	0	0	0	11
<b>Low-Density Trees</b>	173	0	0	0	0	0	173
<b>Planted Pines</b>	77	0	0	0	606	0	683
<b>Total</b>	<b>261</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>612</b>	<b>0</b>	<b>873</b>



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
6	41107006-Cut	23.7	42110 - Planted Red Pine	High Density Pole	57	81-110	Harvest	Systematic Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Mark every third row for removal, when When stocking is low or no rows are present either make rows or thin to release, or remove poor quality trees. Cut all aspen, red maple and jack pine in the stand. Mark white pine and cherry for harvest if necessary for operability. All oak and hemlock should be reserved if present. Consider using a stump height spec to make future planting operations easier. Some jack pine, aspen, and red maple will be left for retention.</p> <p><u>Specs:</u></p> <p><u>Other</u> Consider adding a road work spec to have pit run added to the Star road, this would help fix any blowouts that result from hauling. Hauling will be on snowmobile trail #443; due to this the sale will be restricted with no operations between 12-1 and 3-31. This sale will be operable during break up as the star road has no spring weight limits.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u></p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										
11	41107011-Cut	39.0	42110 - Planted Red Pine	High Density Pole	57	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Mark every third row for removal, when When stocking is low or no rows are present either make rows or thin to release, or remove poor quality trees. Cut all aspen, red maple and jack pine in the stand. Mark white pine and cherry for harvest if necessary for operability. All oak and hemlock should be reserved if present. Consider using a stump height spec to make future planting operations easier. Some jack pine, aspen, and red maple will be left for retention.</p> <p><u>Specs:</u></p> <p><u>Other</u> Consider adding a road work spec to have pit run added to the Star road, this would help fix any blowouts that result from hauling. Hauling will be on snowmobile trail #443; due to this the sale will be restricted with no operations between 12-1 and 3-31. This sale will be operable during break up as the star road has no spring weight limits.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u></p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										
14	41107014-Cut	43.5	42110 - Planted Red Pine	High Density Log	57	51-80	Harvest	Systematic Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Mark every third row for removal, when When stocking is low or no rows are present either make rows or thin to release, or remove poor quality trees. Cut all aspen, red maple and jack pine in the stand. Mark white pine and cherry for harvest if necessary for operability. All oak and hemlock should be reserved if present. Consider using a stump height spec to make future planting operations easier. Some jack pine, aspen, and red maple will be left for retention.</p> <p><u>Specs:</u></p> <p><u>Other</u> Consider adding a road work spec to have pit run added to the Star road, this would help fix any blowouts that result from hauling. Hauling will be on snowmobile trail #443; due to this the sale will be restricted with no operations between 12-1 and 3-31. This sale will be operable during break up as the star road has no spring weight limits.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u></p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										
17	41107017-Cut	7.8	42110 - Planted Red Pine	High Density Log	57	81-110	Harvest	Systematic Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Mark every third row for removal, when When stocking is low or no rows are present either make rows or thin to release, or remove poor quality trees. Cut all aspen, red maple and jack pine in the stand. Mark white pine and cherry for harvest if necessary for operability. All oak and hemlock should be reserved if present. Consider using a stump height spec to make future planting operations easier. Some jack pine, aspen, and red maple will be left for retention.</p> <p><u>Specs:</u></p> <p><u>Other</u> Consider adding a road work spec to have pit run added to the Star road, this would help fix any blowouts that result from hauling. Hauling will be on snowmobile trail #443; due to this the sale will be restricted with no operations between 12-1 and 3-31. This sale will be operable during break up as the star road has no spring weight limits.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u></p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
18	41107018-Cut	28.2	42110 - Planted Red Pine	High Density Log	57	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Mark every third row for removal, when When stocking is low or no rows are present either make rows or thin to release, or remove poor quality trees. Cut all aspen, red maple and jack pine in the stand. Mark white pine and cherry for harvest if necessary for operability. All oak and hemlock should be reserved if present. Consider using a stump height spec to make future planting operations easier. Some jack pine, aspen, and red maple will be left for retention.</p> <p><u>Other Comments:</u> Consider adding a road work spec to have pit run added to the Star road, this would help fix any blowouts that result from hauling. Hauling will be on snowmobile trail #443; due to this the sale will be restricted with no operations between 12-1 and 3-31. This sale will be operable during break up as the star road has no spring weight limits.</p> <p><u>Next Steps:</u></p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										
19	41107019-Cut	21.8	42110 - Planted Red Pine	High Density Pole	57	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Mark every third row for removal, when When stocking is low or no rows are present either make rows or thin to release, or remove poor quality trees. Cut all aspen, red maple and jack pine in the stand. Mark white pine and cherry for harvest if necessary for operability. All oak and hemlock should be reserved if present. Consider using a stump height spec to make future planting operations easier. Some jack pine, aspen, and red maple will be left for retention.</p> <p><u>Other Comments:</u> Consider adding a road work spec to have pit run added to the Star road, this would help fix any blowouts that result from hauling. Hauling will be on snowmobile trail #443; due to this the sale will be restricted with no operations between 12-1 and 3-31. This sale will be operable during break up as the star road has no spring weight limits.</p> <p><u>Next Steps:</u></p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										
20	41107020-Cut	6.1	42110 - Planted Red Pine	High Density Pole	57	51-80	Harvest	Systematic Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Mark every third row for removal, when When stocking is low or no rows are present either make rows or thin to release, or remove poor quality trees. Cut all aspen, red maple and jack pine in the stand. Mark white pine and cherry for harvest if necessary for operability. All oak and hemlock should be reserved if present. Consider using a stump height spec to make future planting operations easier. Some jack pine, aspen, and red maple will be left for retention.</p> <p><u>Other Comments:</u> Consider adding a road work spec to have pit run added to the Star road, this would help fix any blowouts that result from hauling. Hauling will be on snowmobile trail #443; due to this the sale will be restricted with no operations between 12-1 and 3-31. This sale will be operable during break up as the star road has no spring weight limits.</p> <p><u>Next Steps:</u></p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										
21	41107021-Cut	31.5	42110 - Planted Red Pine	High Density Pole	52	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Mark every third row for removal, when When stocking is low or no rows are present either make rows or thin to release, or remove poor quality trees. Cut all aspen, red maple and jack pine in the stand. Mark white pine and cherry for harvest if necessary for operability. All oak and hemlock should be reserved if present. Consider using a stump height spec to make future planting operations easier. Some jack pine, aspen, and red maple will be left for retention.</p> <p><u>Other Comments:</u> Consider adding a road work spec to have pit run added to the Star road, this would help fix any blowouts that result from hauling. Hauling will be on snowmobile trail #443; due to this the sale will be restricted with no operations between 12-1 and 3-31. This sale will be operable during break up as the star road has no spring weight limits.</p> <p><u>Next Steps:</u></p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
23	41107023-Cut	9.4	42110 - Planted Red Pine	High Density Pole	57	51-80	Harvest	Systematic Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: Mark every third row for removal, when When stocking is low or no rows are present either make rows or thin to release, or remove poor quality trees. Cut all aspen, red maple and jack pine in the stand. Mark white pine and cherry for harvest if necessary for operability. All oak and hemlock should be reserved if present. Consider using a stump height spec to make future planting operations easier. Some jack pine, aspen, and red maple will be left for retention.

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Next Steps:

Proposed Start Date: 10/01/2015

24	41107024-Cut	8.3	42110 - Planted Red Pine	High Density Log	57	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
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Next Steps:

Proposed Start Date: 10/01/2015

25	41107025-Cut	18.9	42110 - Planted Red Pine	High Density Log	57	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Specs: Mark every third row for removal, when When stocking is low or no rows are present either make rows or thin to release, or remove poor quality trees. Cut all aspen, red maple and jack pine in the stand. Mark white pine and cherry for harvest if necessary for operability. All oak and hemlock should be reserved if present. Consider using a stump height spec to make future planting operations easier. Some jack pine, aspen, and red maple will be left for retention.

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Next Steps:

Proposed Start Date: 10/01/2015

26	41107026-Cut	114.0	42110 - Planted Red Pine	High Density Log	57	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Specs: Mark every third row for removal, when When stocking is low or no rows are present either make rows or thin to release, or remove poor quality trees. Cut all aspen, red maple and jack pine in the stand. Mark white pine and cherry for harvest if necessary for operability. All oak and hemlock should be reserved if present. Consider using a stump height spec to make future planting operations easier. Some jack pine, aspen, and red maple will be left for retention.

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Next Steps:

Proposed Start Date: 10/01/2015



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
29	41107029-Cut	9.6	42110 - Planted Red Pine	High Density Log	57	200+	Harvest	Systematic Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal

Prescription Mark every third row for removal, when When stocking is low or no rows are present either make rows or thin to release, or remove poor quality trees. Cut all aspen, red maple and jack pine in the stand. Mark white pine and cherry for harvest if necessary for operability. All oak and hemlock should be reserved if present. Consider using a stump height spec to make future planting operations easier. Some jack pine, aspen, and red maple will be left for retention.

Other Consider adding a road work spec to have pit run added to the Star road, this would help fix any blowouts that result from hauling. Hauling will be on snowmobile trail #443; due to this the sale will be restricted with no operations between December and April. This sale will be operable during break up as the star road has no spring weight limits.

Next  
Steps:

Proposed  
Start Date: 10/01/2015

34	41107034-Cut	18.0	42110 - Planted Red Pine	High Density Log	57	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Mark every third row for removal, when When stocking is low or no rows are present either make rows or thin to release, or remove poor quality trees. Cut all aspen, red maple and jack pine in the stand. Mark white pine and cherry for harvest if necessary for operability. All oak and hemlock should be reserved if present. Consider using a stump height spec to make future planting operations easier. Some jack pine, aspen, and red maple will be left for retention.

Other Consider adding a road work spec to have pit run added to the Star road, this would help fix any blowouts that result from hauling. Hauling will be on snowmobile trail #443; due to this the sale will be restricted with no operations between 12-1 and 3-31. This sale will be operable during break up as the star road has no spring weight limits.

Next  
Steps:

Proposed  
Start Date: 10/01/2015

35	41107035-Cut	11.1	4133 - Aspen, Mixed Pine	High Density Pole	52		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
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Prescription Cut all species except leave red pine, oak, and hemlock if present. Use a 2 inch spec to regenerate aspen. Leave an island of 3- 10 percent for retention, try to pick a low stocked area with smaller timber then the stand average.

Other Consider adding a road work spec to have pit run added to the Star road, this would help fix any blowouts that result from hauling. Hauling will be on snowmobile trail #443; due to this the sale will be restricted with no operations between 12-1 and 3-31. This sale will be operable during break up as the star road has no spring weight limits.

Next  
Steps:

Proposed  
Start Date: 10/01/2015

37	41107037-Cut	37.4	42110 - Planted Red Pine	High Density Pole	57	81-110	Harvest	Systematic Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Mark every third row for removal, when When stocking is low or no rows are present either make rows or thin to release, or remove poor quality trees. Cut all aspen, red maple and jack pine in the stand. Mark white pine and cherry for harvest if necessary for operability. All oak and hemlock should be reserved if present. Consider using a stump height spec to make future planting operations easier. Some jack pine, aspen, and red maple will be left for retention.

Other Consider adding a road work spec to have pit run added to the Star road, this would help fix any blowouts that result from hauling. Hauling will be on snowmobile trail #443; due to this the sale will be restricted with no operations between 12-1 and 3-31. This sale will be operable during break up as the star road has no spring weight limits.

Next  
Steps:

Proposed  
Start Date: 10/01/2015



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
39	41107039-Cut	90.4	42110 - Planted Red Pine	High Density Log	53	81-110	Harvest	Systematic Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Mark every third row for removal, when stocking is low or no rows are present either make rows or thin to release, or remove poor quality trees. Cut all aspen, red maple and jack pine in the stand. Mark white pine and cherry for harvest if necessary for operability. All oak and hemlock should be reserved if present. Consider using a stump height spec to make future planting operations easier. Some jack pine, aspen, and red maple will be left for retention.</p> <p><u>Other Comments:</u> Consider adding a road work spec to have pit run added to the Star road, this would help fix any blowouts that result from hauling. Hauling will be on snowmobile trail #431; due to this the sale will be restricted with no operations between December and April. This sale will be operable during break up as the star road has no spring weight limits.</p> <p><u>Next Steps:</u></p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										
40	41107040-Cut	16.7	42110 - Planted Red Pine	High Density Log	57	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Mark every third row for removal, when stocking is low or no rows are present either make rows or thin to release, or remove poor quality trees. Cut all aspen, red maple and jack pine in the stand. Mark white pine and cherry for harvest if necessary for operability. All oak and hemlock should be reserved if present. Consider using a stump height spec to make future planting operations easier. Some jack pine, aspen, and red maple will be left for retention.</p> <p><u>Other Comments:</u> Consider adding a road work spec to have pit run added to the Star road, this would help fix any blowouts that result from hauling. Hauling will be on snowmobile trail #443; due to this the sale will be restricted with no operations between 12-1 and 3-31. This sale will be operable during break up as the star road has no spring weight limits.</p> <p><u>Next Steps:</u></p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										
44	41107044-Cut	4.8	42120 - Planted Jack Pine	High Density Log	63		Harvest	Clearcut with Reserves	4212 - Planted Jack Pine	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Cut all species except leave some red pine (no more then 10sq.ft.), also leave all oak, and hemlock if present. Leave a pocket (3-10) percent of stand area along the southeast edge of the stand for retention. May have to hold cut to mitigate green up issues still present from adjacent stand cut last entry period.</p> <p><u>Other Comments:</u> Cut with compartment 107 stand 43.</p> <p><u>Next Steps:</u> Site should be scarified within two years of harvest, unless TMS determines planting is preferred. If scarification fails trench and plant site. Use any other treatments that TMS feels is necessary to regenerate jack pine. Regeneration counts should be done per work instructions. Acceptable regeneration is jack pine, spruce, balsam fir, oak, red pine, and white pine.</p> <p><u>Proposed Start Date:</u> 10/01/2016</p>										
55	41107055-Cut	6.2	42120 - Planted Jack Pine	High Density Pole	61		Harvest	Clearcut with Reserves	4212 - Planted Jack Pine	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Cut all species except leave some red pine (no more then 10sq.ft.), also leave all oak, and hemlock if present. Leave a pocket (3-10) percent of stand area along the southeast edge of the stand for retention. May have to hold cut to mitigate green up issues still present from adjacent stand cut last entry period.</p> <p><u>Other Comments:</u> Cut with compartment 107 stand 39.</p> <p><u>Next Steps:</u> Site should be scarified within two years of harvest, unless TMS determines planting is preferred. If scarification fails trench and plant site. Use any other treatments that TMS feels is necessary to regenerate jack pine. Regeneration counts should be done per work instructions. Acceptable regeneration is jack pine, spruce, balsam fir, oak, red pine, and white pine.</p> <p><u>Proposed Start Date:</u> 10/01/2016</p>										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
57	41107057-Cut	38.0	42120 - Planted Jack Pine	High Density Log	61		Harvest	Clearcut with Reserves	4211 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Cut all species except leave some red pine (no more than 10sq.ft.), also leave all oak, and hemlock if present. Leave a pocket (3-10) percent of stand area along the southeast edge of the stand for retention. May have to hold cut to mitigate green up issues still present from adjacent stand cut last entry period.</p> <p><u>Specs:</u></p> <p><u>Other</u> Consider adding a road work spec to have pit run added to the Star and Danaher Plains roads, this would help fix any blowouts that result from hauling. Hauling may be on snowmobile trail #431; any operations using the trail will be restricted with no operations between 12-1 and 3-31. This sale will be operable during break up as the Star and Danaher Plains roads has no spring weight limits.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u> Site should be scarified within two years of harvest, unless TMS determines planting is preferred. If scarification fails trench and plant site. Use any other treatments that TMS feels is necessary to regenerate jack pine. Regeneration counts should be done per work instructions. Acceptable regeneration is jack pine, spruce, balsam fir, oak, red pine, and white pine.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										
59	41107059-Cut	27.7	42120 - Planted Jack Pine	High Density Log	61		Harvest	Clearcut with Reserves	4212 - Planted Jack Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Cut all species except leave some red pine (no more than 10sq.ft.), also leave all oak, and hemlock if present. Leave a pocket (3-10) percent of stand area along the southwest edge of the stand for retention. May have to hold cut to mitigate green up issues still present from adjacent stand cut last entry period.</p> <p><u>Specs:</u></p> <p><u>Other</u> Consider adding a road work spec to have pit run added to the Star and Danaher Plains roads, this would help fix any blowouts that result from hauling. Hauling may be on snowmobile trail #431; any operations using the trail will be restricted with no operations between 12-1 and 3-31. This sale will be operable during break up as the Star and Danaher Plains roads has no spring weight limits.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u> Site should be scarified within two years of harvest, unless TMS determines planting is preferred. If scarification fails trench and plant site. Use any other treatments that TMS feels is necessary to regenerate jack pine. Regeneration counts should be done per work instructions. Acceptable regeneration is jack pine, spruce, balsam fir, oak, red pine, and white pine.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										
64	41107064-Cut	87.6	42110 - Planted Red Pine	High Density Log	57	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Mark every third row for removal, when When stocking is low or no rows are present either make rows or thin to release, or remove poor quality trees. Cut all aspen, red maple and jack pine in the stand. Mark white pine and cherry for harvest if necessary for operability. All oak and hemlock should be reserved if present. Consider using a stump height spec to make future planting operations easier. Some jack pine, aspen, and red maple will be left for retention.</p> <p><u>Specs:</u></p> <p><u>Other</u> Consider adding a road work spec to have pit run added to the Star and Danaher Plains road, this would help fix any blowouts that result from hauling. Hauling will be on snowmobile trail #431; due to this the sale will be restricted with no operations between 12-1 and 3-31. This sale will be operable during break up as the star road has no spring weight limits. Protect the ORV trail that borders the south side of the stand.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u></p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										
36	NF_41107036-Cut	64.9	3302 - Low Density Conifer Trees				Harvest	Clearcut with Reserves	4212 - Planted Jack Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut merchantable timber leave a few white and red pine or mature red maple where possible for retention. Or leave a small pocket of jack pine along the stand edge. This stand is coded as non-forested so cordage will be low. Site may be only operable though chipping. Keep the stump heights low to allow for planting operations.</p> <p><u>Specs:</u></p> <p><u>Other</u> Consider adding a road work spec to have pit run added to the Star road, this would help fix any blowouts that result from hauling. Hauling will be on snowmobile trail #443; due to this the sale will be restricted with no operations between 12-1 and 3-31. This sale will be operable during break up as the star road has no spring weight limits.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u> Site needs to be trenched and planted after harvest to jack pine. Use any and all methods needed to regenerate jack pine on site.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
60	NF_41107060-Cut	56.5	3302 - Low Density Conifer Trees				Harvest	Clearcut with Reserves	4212 - Planted Jack Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut merchantable timber leave a few white and red pine or mature red maple where possible for retention. Or leave a small pocket of trees along the stand edge. This stand is coded as non-forested so cordage will be low. Site may be only operable though chipping. Keep the stump heights low to allow for planting operations.</p> <p><u>Specs:</u></p> <p><u>Other</u> Consider adding a road work spec to have pit run added to the Star and Danaher Plains roads, this would help fix any blowouts that result from hauling. Hauling may be on snowmobile trail #431; any operations using the trail will be restricted with no operations between 12-1 and 3-31. This sale will be operable during break up as the Star and Danaher Plains roads has no spring weight limits.</p> <p><u>Comments:</u></p> <p><u>Next</u> Trench and plant site. Use any other treatments that TMS feels is necessary to regenerate jack pine. Regeneration counts should be done per work instructions. Acceptable regeneration is jack pine, spruce, balsam fir, oak, red pine, and white pine.</p> <p><u>Steps:</u></p> <p><u>Proposed</u></p> <p><u>Start Date:</u> 10/01/2015</p>										
63	NF_41107063-Cut	51.8	3302 - Low Density Conifer Trees				Harvest	Clearcut with Reserves	4211 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut merchantable timber leave a few white and red pine where possible for retention. This stand is coded as non-forested so cordage will be low. Site may be only operable though chipping. Keep the stump heights low to allow for planting operations.</p> <p><u>Specs:</u></p> <p><u>Other</u> Consider adding a road work spec to have pit run added to the Star and Danaher Plains roads, this would help fix any blowouts that result from hauling. Hauling may be on snowmobile trail #431; any operations using the trail will be restricted with no operations between 12-1 and 3-31. This sale will be operable during break up as the Star and Danaher Plains roads has no spring weight limits.</p> <p><u>Comments:</u></p> <p><u>Next</u> Site needs to be trenched and planted after harvest to red pine. Use any and all methods needed to regenerate red pine on site. Acceptable regeneration is jack pine, spruce, balsam fir, oak, red pine, and white pine.</p> <p><u>Steps:</u></p> <p><u>Proposed</u></p> <p><u>Start Date:</u> 10/01/2015</p>										
51	41107051-Plant	52.6	4311 - Pine, Aspen Mix	Medium Density Sapling	20		Tree Planting	Machine Plant	4212 - Planted Jack Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Plant jack pine in gaps to fill site it and improve stocking.</p> <p><u>Specs:</u></p> <p><u>Other</u></p> <p><u>Comments:</u></p> <p><u>Next</u> Regeneration checks will be conducted per work instructions. Include all commercial species in regeneration counts.</p> <p><u>Steps:</u></p> <p><u>Proposed</u></p> <p><u>Start Date:</u> 10/31/2014</p>										
62	41107062-Plant	10.6	4133 - Aspen, Mixed Pine	Medium Density Sapling	21	1-50	Tree Planting	Machine Plant	4212 - Planted Jack Pine	Cmpt. Review Proposal
<p><u>Prescription</u> plant jack pine in the gaps</p> <p><u>Specs:</u></p> <p><u>Other</u></p> <p><u>Comments:</u></p> <p><u>Next</u> Regeneration checks will be conducted per work instructions. Include all commercial species in regeneration counts.</p> <p><u>Steps:</u></p> <p><u>Proposed</u></p> <p><u>Start Date:</u> 10/31/2014</p>										



Standard	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	NF_41107001- NonFor	82.1	330 - Low-Density Trees				Non-Forest Management	Brush Cutting	3302 - Low Density Conifer Trees	Cmpt. Review Proposal
<u>Prescription</u> Work in opening to enhance sharptail grouse habitat. Activities may include burning, mowing, brush cutting planting of species as wildlife division										
<u>Specs:</u> sees fit.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/31/2014										
8	NF_41107008- NonFor	62.6	330 - Low-Density Trees				Non-Forest Management	Brush Cutting	3302 - Low Density Conifer Trees	Cmpt. Review Proposal
<u>Prescription</u> Work in opening to enhance sharptail grouse habitat. Activities may include burning, mowing, brush cutting planting of species as wildlife division										
<u>Specs:</u> sees fit.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/31/2014										
16	NF_41107016- NonFor	175.7	3302 - Low Density Conifer Trees				Non-Forest Management	Brush Cutting	3302 - Low Density Conifer Trees	Cmpt. Review Proposal
<u>Prescription</u> Work in opening to enhance sharptail grouse habitat. Activities may include burning, mowing, brush cutting planting of species as wildlife division										
<u>Specs:</u> sees fit.										
<u>Other</u> Please see stand management comments before treatment is carried out.										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/31/2014										
32	NF_41107032- NonFor	345.1	330 - Low-Density Trees				Non-Forest Management	Brush Cutting	3302 - Low Density Conifer Trees	Cmpt. Review Proposal
<u>Prescription</u> Work in opening to enhance sharptail grouse habitat. Activities may include burning, mowing, brush cutting planting of species as wildlife division										
<u>Specs:</u> sees fit.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/31/2014										
38	NF_41107038- Survey	170.1	3301 - Low Density Deciduous Trees				Regeneration Survey	Artificial Regeneration (3yr)	4212 - Planted Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> Sale was cut in winter of 2009 under sale #41-003-06-01. Stand was panted at a cost of \$189.72 an ac. (89ac) under FTP c41-1274. First year										
<u>Specs:</u> count failed stand was replanted in 2012 at a cost of 136.05. First year count was 715 T/A, third year count to come in 2015.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 03/03/2014										

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
56 NF_41107056-Survey	34.0	3302 - Low Density Conifer Trees				Regeneration Survey	Artificial Regeneration (3yr)	4212 - Planted Jack Pine	Cmpt. Review Proposal

Prescription Sale was cut in 2010 under sale #41-034-06-01 Danaher Jack Pine. The site was planted in 2010 at a cost of \$170.69 under FTP c41-1313. First  
Specs: year count in 2011 failed, third year count to be done in 2014.

Other  
Comments:

Next  
Steps:

Proposed  
Start Date: 10/31/2014

58 NF_41107058-Survey	12.3	3303 - Mixed Low Density Trees				Regeneration Survey	Artificial Regeneration (3yr)	4212 - Planted Jack Pine	Cmpt. Review Proposal
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Prescription Sale was cut in 2010 under sale #41-034-06-01 Danaher Jack Pine. The site was planted in 2010 at a cost of \$170.69 under FTP c41-1313. First  
Specs: year count in 2011 failed, third year count to be done in 2014.

Other  
Comments:

Next  
Steps:

Proposed  
Start Date: 02/21/2014

**Total Treatment**  
**Acreage Proposed: 1818.1**



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

Prescription

Specs:

Other

Comment:

Next

Steps:

Proposed

Start Date: #Type!

Limiting Factor

**Total Treatment  
Acreage Proposed: 0.0**

## Report 5 – Site Conditions

Shingleton Mgt. Unit  
Rick James Hill : Examiner

Compartment 107  
Year of Entry 2016

### Availability for Management

Availability for Management			Dominant Site Conditions		
Total Acres	Acres Available	Acres Not Available		No	1C
253	246	7	<b>Aspen</b>	246	7
123	123		<b>Jack Pine</b>	123	
59	59		<b>Lowland Conifers</b>	59	
42	42		<b>Lowland Spruce/Fir</b>	42	
7	7		<b>Northern Hardwood</b>	7	
10	10		<b>Planted Mixed Pines</b>	10	
743	743		<b>Red Pine</b>	743	
9	9		<b>Upland Conifers</b>	9	
79	53	25	<b>Upland Mixed Forest</b>	53	25
6	6		<b>White Pine</b>	6	
1,331	1,299	32	Total Forested Acres	1,299	32
	98%	2%	Relative Percent		

*\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
002	Not Available	1C: Other dept or div proc/practices	35	3J: Water quality / BMPs (stream, river, or lake)			
<b>Comments:</b>							



### Report 6 – 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.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



**Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

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

Conservation Area	Type	Description
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Shingleton Mgt. Unit		Report 8 – Forested Stands			Compartment: 107 Year of Entry: 2016	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		
2	4319 - Mixed Upland Forest	High Density Sapling	26.3	21			Clear creek river corridor, Fox River plan applies to this stand. The plan as well as step terrain will keep harvesting out of this stand.
3	4133 - Aspen, Mixed Pine	High Density Sapling	6.6	24			Aspen stand cut in 1992.
5	4132 - Aspen, Jack Pine	Medium Density	167.8	22			Area was grass but is converting to aspen. In 1992 the larger aspen was cut as time goes on the stand will continue to fill in.
6	42110 - Planted Red Pine	High Density Pole	23.7	57	81-110		Stand was planted in 1957 mostly poor to moderate quality look at thinning to add some volume before a final harvest.
7	4132 - Aspen, Jack Pine	High Density Pole	16.6	22			
9	42110 - Planted Red Pine	High Density Log	22.9	57	111-140		Evaluate for final harvest in ten years, Stand will have no issues holding till then.
10	6122 - Black Spruce	High Density Pole	27.6	73			
11	42110 - Planted Red Pine	High Density Pole	39.0	57	111-140		The basal area of this stand is quite variable. The quality of the stand is also quite variable with most being poor. The stand should be thinned to add some volume before a final harvest.
12	42200 - Natural White Pine	High Density Pole	5.7	53	1-50		This area is white pine filling in an opening. look at treating in 10 years.
13	42220 - Natural Jack Pine	High Density Pole	21.6	40			Uneven aged mix of jack pine cut this stand in 20 years.
14	42110 - Planted Red Pine	High Density Log	43.5	57	51-80		Stand was planted in 1957 mostly poor to moderate quality look at thinning to add some volume before a final harvest.
17	42110 - Planted Red Pine	High Density Log	7.8	57	81-110		Stand was planted in 1957 mostly poor to moderate quality look at thinning to add some volume before a final harvest.
18	42110 - Planted Red Pine	High Density Log	28.2	57	141-170		Stand was planted in 1957 mostly poor to moderate quality look at thinning to add some volume before a final harvest.
19	42110 - Planted Red Pine	High Density Pole	21.8	57	111-140		Stand was planted in 1957 mostly poor to moderate quality look at thinning to add some volume before a final harvest.
20	42110 - Planted Red Pine	High Density Pole	6.1	57	51-80		This stand is of poor quality, stand should be clearcut and replanted to red pine.
21	42110 - Planted Red Pine	High Density Pole	31.5	52	141-170		The basal area of this stand is quite variable. The quality of the stand is also quite variable with most being poor. There is a large frost pocket in the south side of the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	42110 - Planted Red Pine	High Density Log	7.4	53	51-80	Evaluate for final harvest in ten years. Stand will have no issues holding till then.
23	42110 - Planted Red Pine	High Density Pole	9.4	57	51-80	This stand is of poor quality, stand should be clearcut and replanted to red pine.
24	42110 - Planted Red Pine	High Density Log	8.3	57	141-170	Stand was planted in 1957 mostly poor to moderate quality look at thinning to add some volume before a final harvest.
25	42110 - Planted Red Pine	High Density Log	19.0	57	111-140	The basil area of this stand is quite variable. The quality of the stand is also quite variable with most being poor. The stand should be thinned to add some volume before a final harvest.
26	42110 - Planted Red Pine	High Density Log	114.0	57	111-140	Stand was planted in 1957 mostly poor to moderate quality look at thinning to add some volume before a final harvest.
27	42110 - Planted Red Pine	High Density Pole	29.5	54	81-110	This stand was cut in 2007, in the 3 camps pine sale. Stand was cut using a 3rd row thin.
28	6129 - Mixed Coniferous Lowland Forest	High Density Pole	59.4	74		Stand surrounds a low bog area. Still a bit small, look at cutting in 10 years.
29	42110 - Planted Red Pine	High Density Log	9.6	57	200+	One of the better red pine plantations in the area. Thin the stand, try to improve the quality and provide for operability.
33	42110 - Planted Red Pine	High Density Log	37.4	57	81-110	
34	42110 - Planted Red Pine	High Density Log	18.0	57	111-140	Stand was planted in 1957 mostly poor to moderate quality look at thinning to add some volume before a final harvest.
35	4133 - Aspen, Mixed Pine	High Density Pole	11.1	52		
37	42110 - Planted Red Pine	High Density Pole	37.4	57	81-110	The basil area of this stand is quite variable. The quality of the stand is also quite variable with most being poor. The stand should be thinned to add some volume before a final harvest.
39	42110 - Planted Red Pine	High Density Log	90.7	53	81-110	The basil area of this stand is quite variable. The quality of the stand is also quite variable with most being poor. This is a large stand so only parts should be worked in this entry period.
40	42110 - Planted Red Pine	High Density Log	16.7	57	141-170	The basil area of this stand is quite variable. The quality of the stand is also quite variable with most being poor. The stand should be thinned to add some volume before a final harvest.
41	429 - Mixed Upland Conifers	High Density Pole	9.4	74		This stand is a mix of ages and sizes of spruce and aspen cut in ten years with adjacent hardwood and similar type stand in compartment 106.

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Shingleton Mgt. Unit

## Report 8 – Forested Stands

Compartment: 107  
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
43	4130 - Aspen	Medium Density	13.2	6		Stand was cut in 2008 in 3 Camps Pine Sale (41-036-06-01) residual of 4 Sq. Feet of red pine. Regeneration is coming in well and looks good. Stand passed walk though for natural regeneration.
44	42120 - Planted Jack Pine	High Density Log	4.8	63		Cut with stand 43 of compartment 108 In 2017 YOE.
45	4112 - Maple, Beech, Cherry Association	High Density Pole	6.8	65	81-110	This stand is an area of moderate to poor quality hardwood, quality is sufficient to allow uneven age management. Maintain stand in hardwood as this stand is good diversity in a mostly pine and grass compartment.
47	42110 - Planted Red Pine	High Density Log	11.5	56	111-140	Stand was planted in 1957 the red pine failed Jack pine was planted in 1965 and has allowed the stand to become fully stocked. This stand should be managed in the future for jack pine. When this stand is harvested replant it in one consolidated stand with the rest of the strips adjacent to this stand.
48	42140 - Planted Mixed Pine	High Density Pole	10.5	48	111-140	Stand was planted in 1957 the red pine failed jack pine was planted in 1965 and has allowed the stand to become fully stocked. This stand should be managed in the future for jack pine. When this stand is harvested replant it in one consolidated stand with the rest of the strips adjacent to this stand.
49	42120 - Planted Jack Pine	High Density Pole	12.4	48		Stand was planted in 1957 the red pine failed jack pine was planted in 1965 and has allowed the stand to become fully stocked. This stand should be managed in the future for jack pine. When this stand is harvested replant it in one consolidated stand with the rest of the strips adjacent to this stand.
50	42120 - Planted Jack Pine	High Density Pole	9.4	48		Stand was planted in 1957 the red pine failed jack pine was planted in 1965 and has allowed the stand to become fully stocked. This stand should be managed in the future for jack pine. When this stand is harvested replant it in one consolidated stand with the rest of the strips adjacent to this stand.
51	4311 - Pine, Aspen Mix	Medium Density	52.6	20		This stand is a mix of species as well as open areas. A new FTP is needed to fill in gaps.
52	42110 - Planted Red Pine	High Density Log	8.4	55	51-80	This stand was cut in the 80's all species but red pine where cut. Hold this entry period and evaluate for harvest in 10 years.
53	4132 - Aspen, Jack Pine	Medium Density Pole	27.2	32		Aspen was cut in 1982, at that time the red pine, oak and white pine where left.
54	42110 - Planted Red Pine	High Density Pole	13.2	53	81-110	This stand has been involved in a fire at some point. Look at treating this area in 10 years.
55	42120 - Planted Jack Pine	High Density Pole	6.2	61		

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Shingleton Mgt. Unit

## Report 8 – Forested Stands

Compartment: 107  
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
57	42120 - Planted Jack Pine	High Density Log	38.0	61		This stand is in decline should be cut before more is lost to old age.
59	42120 - Planted Jack Pine	High Density Log	27.7	61		This stand is in decline should be cut before more is lost to old age.
61	42120 - Planted Jack Pine	High Density Log	3.1	64		Jack Pine stand is under contract with stand 57 of C106. Stand is part of Unit 1 of 41-018-13-01 Easygoing 106 Mix. Stand under FTP C41-1557 for jack pine regeneration post-harvest.
62	4133 - Aspen, Mixed Pine	Medium Density	10.6	21	1-50	This stand is a mix of species; the large hardwood was cut in 1994 by department of corrections. The stand is regenerating fairly well. Jack pine planting in gaps would improve stocking and should be done to create a stand that is fully stocked.
64	42110 - Planted Red Pine	High Density Log	87.6	57	111-140	Stand was planted in 1957 mostly poor to moderate quality look at thinning to add some volume before a final harvest.
65	6122 - Black Spruce	High Density Pole	14.2	73		



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	330 - Low-Density Trees	82.1	Unspecified	Unspecified	
4	330 - Low-Density Trees	4.7	Unspecified	Unspecified	
8	330 - Low-Density Trees	62.6	Unspecified	Unspecified	
15	6233 - Wet Meadow	19.6	Unspecified	Unspecified	
16	3302 - Low Density Conifer Trees	194.0	Yes	High	The west end of this stand was burned in June of 2011 in a grass conversion burn. The burn has been successful there is not a lot of regeneration in this area of the stand. Other areas may need some brush clearing work.
30	330 - Low-Density Trees	25.6	Unspecified	Unspecified	
31	6224 - Treed Bog	20.2	Unspecified	Unspecified	
32	330 - Low-Density Trees	410.9	Unspecified	Unspecified	
36	3302 - Low Density Conifer Trees	64.9	Plantation	Jack Pine	
38	3301 - Low Density Deciduous Tree	170.1	Plantation	Jack Pine	
42	6225 - Bog	1.0	Unspecified	Unspecified	
46	6225 - Bog	17.7	Unspecified	Unspecified	
56	3302 - Low Density Conifer Trees	34.0	Plantation	Jack Pine	
58	3303 - Mixed Low Density Trees	12.3	Plantation	Jack Pine	
60	3302 - Low Density Conifer Trees	56.7	Plantation	Jack Pine	
63	3302 - Low Density Conifer Trees	52.0	Plantation	Red Pine	
66	6224 - Treed Bog	4.0	Unspecified	Unspecified	