



# Compartment Review Presentation

## Shingleton Forest Management Unit

Compartment 70

Entry Year 2016

Acreage: 1,119

County Schoolcraft

Management Area: Seney Manistique Swamp

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**Revision Date:** 04/24/2014

**Stand Examiner:** Tori Irving

**Legal Description:**

T42N, R14W, Sections 5-7 & 18

**Identified Planning Goals:**

This compartment is part of the Seney Manistique Swamp management Area. The main objectives in this area timber harvesting; wildlife management; protecting unique areas; and providing opportunities for forest recreation.

**Soil and topography:**

Specific soils information is very limited within this compartment, however it is currently being re-mapped by the Soil Survey. In general, the soils are very well drained sandy soils. The terrain in the area is flat to rolling.

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

Ownership within the compartment is mostly contiguous blocks of State land. There is some private fragmentation but the majority of this land is inaccessible and used very little. The private land is either forest or marsh and it is currently either undeveloped or has hunting camps on it.

**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:**

The Manistique River is along the southern border of the compartment.

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:**

Wildlife featured species: Beaver, moose, ruffed grouse, sharp-tailed grouse, snowshoe hare and deer.

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

Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies from 0 to 10 feet. The Silurian Manitoulin Dolomite and Cabothead Shale subcrop below the glacial drift. The Manitoulin could be used for stone. The nearest gravel pit is located one mile to the east, but potential appears to be limited. There is no commercial oil and gas production in the UP.

**Vehicle Access:**

The Letson Road runs through the compartment. It is a minimally maintained Department Road. There are several other two-track roads through the compartment, most of which lead to private land. There are also several old/abandoned roads that can be re-opened for future harvesting activities.

**Survey Needs:**

**Recreational Facilities and Opportunities:**

There are no recreational facilities within the compartment, the area does offer some secluded hunting opportunities due to the lack of roads in the compartment.

**Fire Protection:**

**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**

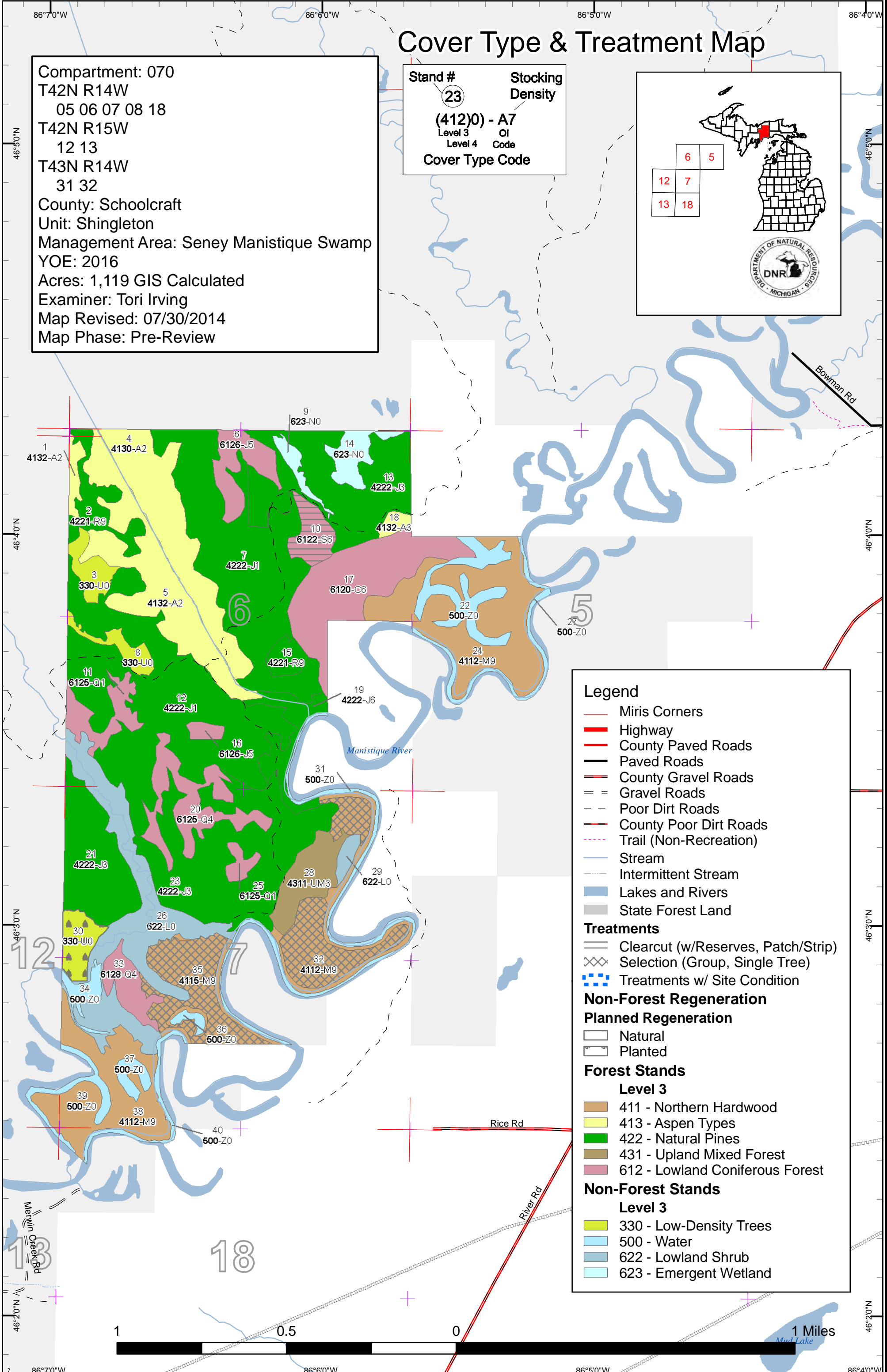
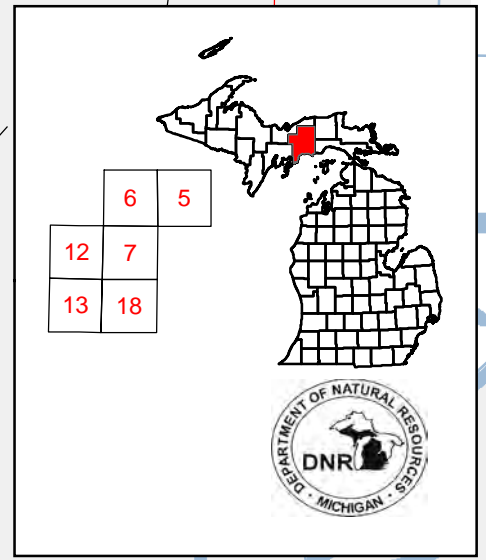
**The following information is displayed, where pertinent, on the attached compartment maps:**

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

# Cover Type & Treatment Map

Compartment: 070  
 T42N R14W  
 05 06 07 08 18  
 T42N R15W  
 12 13  
 T43N R14W  
 31 32  
 County: Schoolcraft  
 Unit: Shingleton  
 Management Area: Seney Manistique Swamp  
 YOE: 2016  
 Acres: 1,119 GIS Calculated  
 Examiner: Tori Irving  
 Map Revised: 07/30/2014  
 Map Phase: Pre-Review

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



**Legend**

- Miris Corners
- 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

**Treatments**

- Clearcut (w/Reserves, Patch/Strip)
- Selection (Group, Single Tree)
- Treatments w/ Site Condition

**Non-Forest Regeneration**

**Planned Regeneration**

- Natural
- Planted

**Forest Stands**

**Level 3**

- 411 - Northern Hardwood
- 413 - Aspen Types
- 422 - Natural Pines
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

**Non-Forest Stands**

**Level 3**

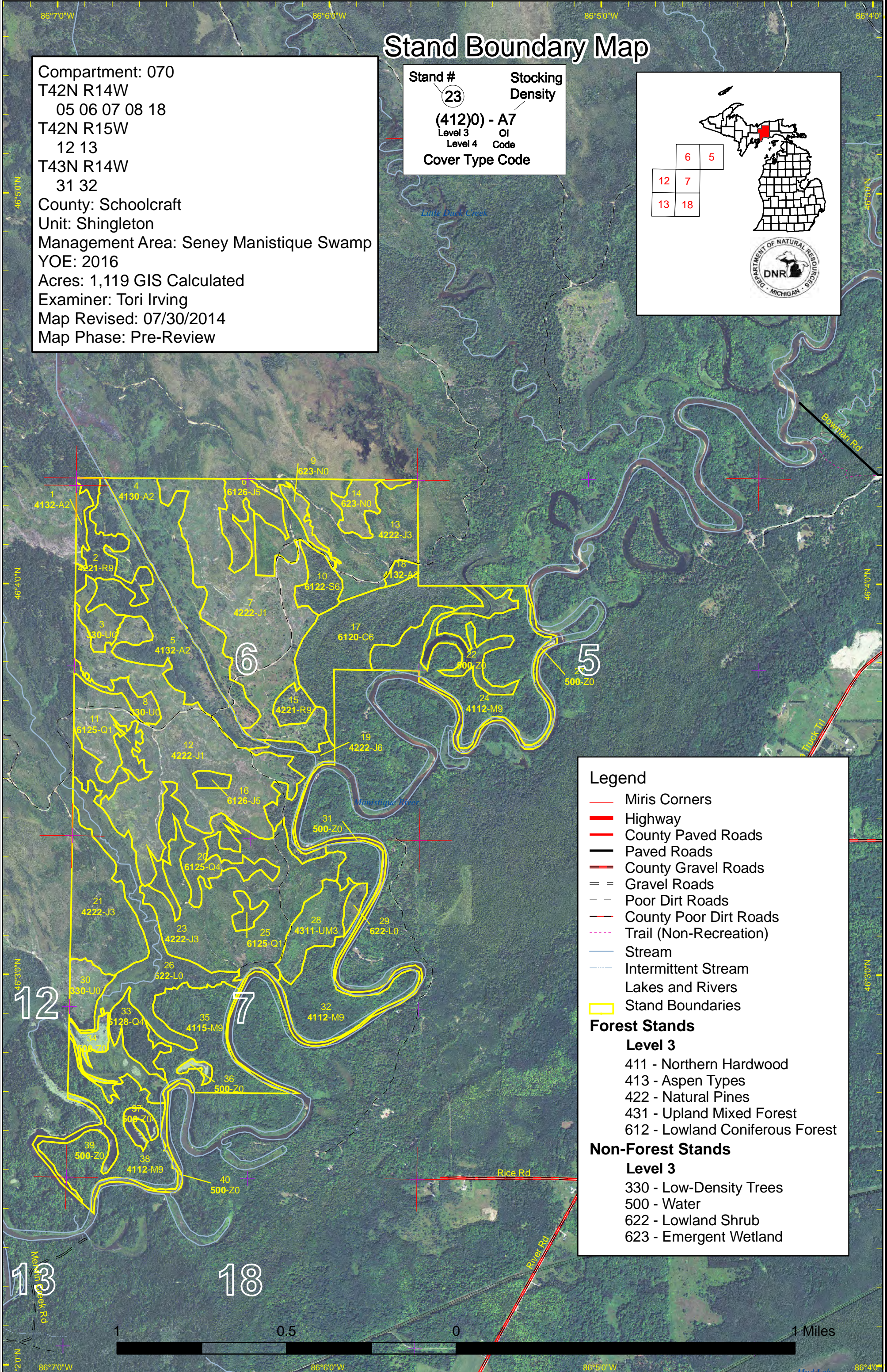
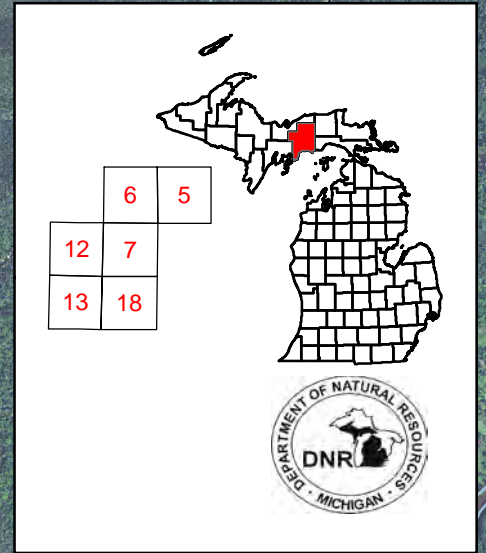
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



# Stand Boundary Map

Compartment: 070  
 T42N R14W  
 05 06 07 08 18  
 T42N R15W  
 12 13  
 T43N R14W  
 31 32  
 County: Schoolcraft  
 Unit: Shingleton  
 Management Area: Seney Manistique Swamp  
 YOE: 2016  
 Acres: 1,119 GIS Calculated  
 Examiner: Tori Irving  
 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
- 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
- Stand Boundaries

**Forest Stands**

**Level 3**

- 411 - Northern Hardwood
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- 422 - Natural Pines
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

**Non-Forest Stands**

**Level 3**

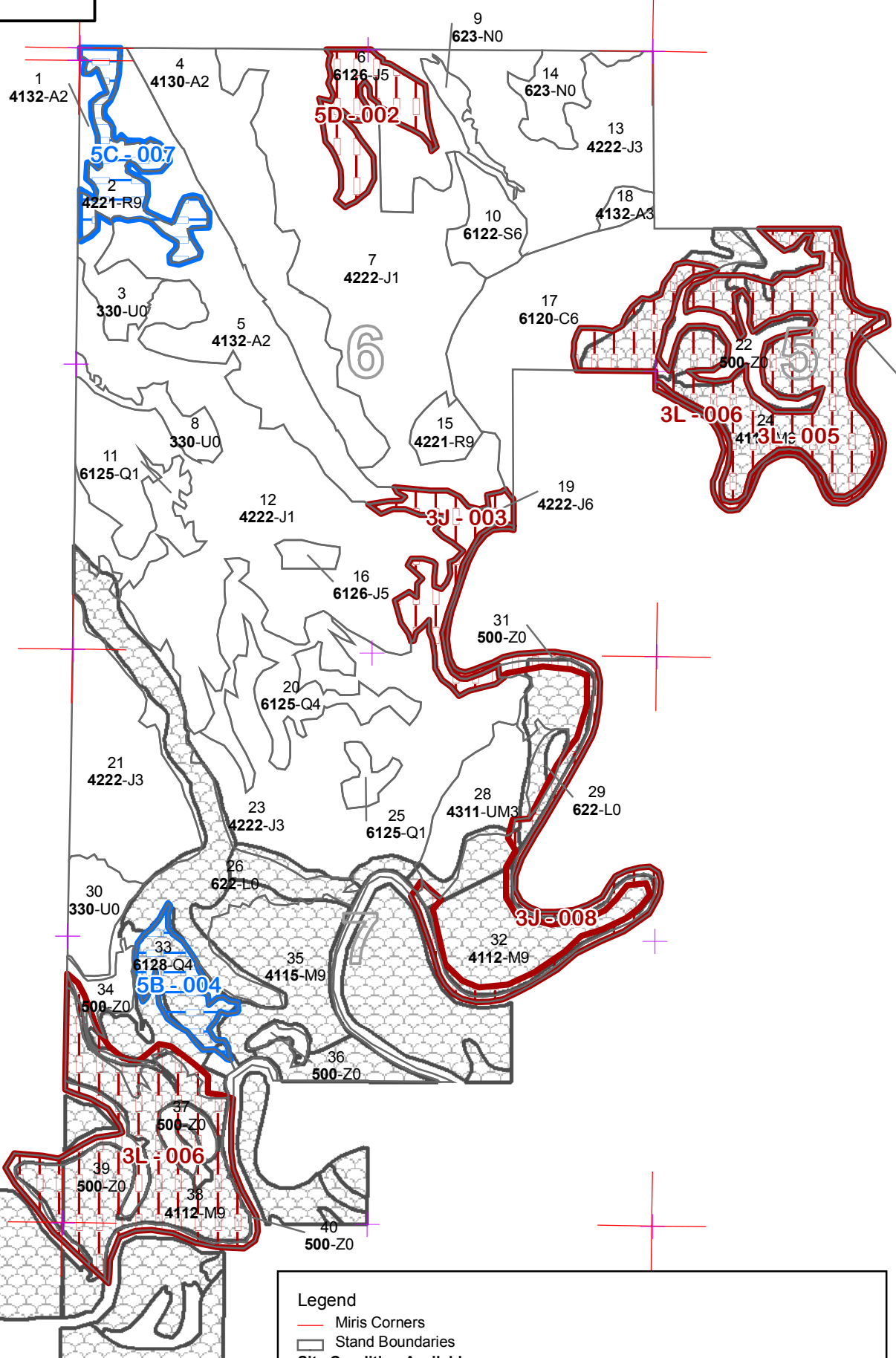
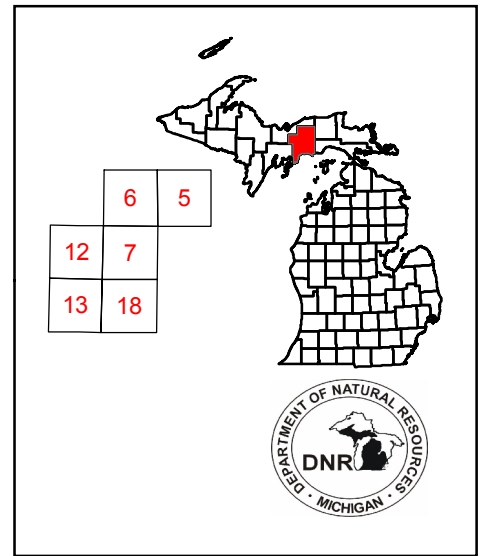
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- 623 - Emergent Wetland



# Special Conservation Areas & Site Conditions Map

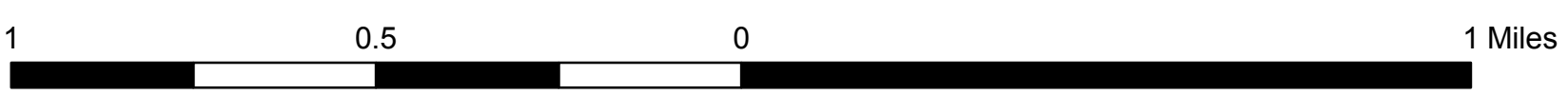
Compartment: 070  
 T42N R14W  
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 Management Area: Seney Manistique Swamp  
 YOE: 2016  
 Acres: 1,119 GIS Calculated  
 Examiner: Tori Irving  
 Map Revised: 07/30/2014  
 Map Phase: Pre-Review

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



**Legend**

- Miris Corners
- Stand Boundaries
- Site Condition Available**
  - Available w/ Constraints (Factor - Number)
  - Unavailable (Factor - Number)
- Site Condition Type**
  - Available Factors W/ Constraints**
    - 5B: Retention for regeneration purposes
    - 5C: Delay treatment for age/size class diversity or exceptional site quality
  - Unavailable Factors**
    - 3J: Water quality / BMPs (stream, river, or lake)
    - 3L: Other wildlife concerns
    - 5D: Unproductive Forest Land
- Reviewable SCAs**
  - Proposed SCA
  - SCA Removal



86°8'0"W      86°7'0"W      86°6'0"W

46°5'0"N  
46°4'0"N  
46°3'0"N  
46°2'0"N

46°5'0"N  
46°4'0"N  
46°3'0"N  
46°2'0"N

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 +		Uneven Age
Aspen	49	65	0	0	0	0	0	0	0	0	0	0	0	0	114
Cedar	0	0	0	0	0	0	0	0	54	0	0	0	0	0	54
Jack Pine	231	191	0	0	0	0	17	19	0	0	0	0	0	0	458
Low-Density Trees	28	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Lowland Conifers	0	0	0	0	0	0	45	0	0	12	0	0	0	0	57
Lowland Shrub	68	0	0	0	0	0	0	0	0	0	0	0	0	0	68
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	11	0	0	0	0	0	11
Marsh	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Northern Hardwood	0	0	0	0	0	0	0	0	117	88	0	0	0	0	205
Red Pine	0	0	0	0	0	0	16	7	0	0	0	0	0	0	23
Upland Mixed Forest	0	20	0	0	0	0	0	0	0	0	0	0	0	0	20
Water	65	0	0	0	0	0	0	0	0	0	0	0	0	0	65
<b>Total</b>	<b>457</b>	<b>275</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>78</b>	<b>26</b>	<b>182</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1119</b>



## Report 2 – Proposed Treatment Summaries

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

**Compartment 070**  
**Total Compartment Acres: 1,119**

### Acres by Treatment Type

Commercial Harvest - 81	Tree Planting - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	

### Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
<b>Lowland Coniferous Forest</b>	11	0	0	0	0	0	11
<b>Northern Hardwood</b>	0	70	0	0	0	0	70
<b>Total</b>	11	70	0	0	0	0	81

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
10 41070010-Cut	11.5	6122 - Black Spruce	High Density Pole	80		Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal

Prescription Cut all trees except hemlock and oak. No retention other than submerchantable spruce which there will be alot of since this stand is a borderline treed bog.

Other Use of snowmobile trail in winter will be required since this is low ground.  
Comments:

Next Check regeneration next year of entry.  
Steps:

Proposed  
Start Date: 10/01/2015

32 41070032-Cut	35.0	4112 - Maple, Beech, Cherry Association	High Density Log	90	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
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Prescription Mark stand heavily to help regeneration of intollerant species and create large canopy gaps. Overall residual basal areas should be around 60.  
Specs: Remove most of the higher quality log trees.

Other Restrict harvest to winter for deer. Buffer Manistique River 50 feet. Avoid marking trees located in any drainages or low areas found within stand.  
Comments:

Next Check regeneration next year of entry. Plant oak if available.  
Steps:

Proposed  
Start Date: 10/01/2015

35 41070035-Cut	34.9	4115 - Y.Birch, Hemlock NH	High Density Log	90	111-140	Harvest	Single Tree Selection	4115 - Y.Birch, Hemlock NH	Cmpt. Review Proposal
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Prescription Mark stand heavily to help regeneration of intollerant species and create large canopy gaps. Overall residual basal areas should be around 60.  
Specs: Remove most of the higher quality log trees.

Other Restrict harvest to winter for deer. Buffer Manistique River 50 feet. Buffer sloughs according to prevent erosion into water body. Survey will be needed. Possible trespass issues also.  
Comments:

Next Check regeneration next year of entry. Plant oak if available.  
Steps:

Proposed  
Start Date: 10/01/2015

**Total Treatment  
Acreage Proposed: 81.4**





S t a n d	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

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**Total Treatment  
Acreage Proposed: 0.0**

**Availability for Management**

Availability for Management			Dominant Site Conditions						
Total Acres	Acres Available	Acres Not Available		No	5D	5C	5B	3L	3J
113	113		Aspen	112		2			
54	54		Cedar	54					
458	425	33	Jack Pine	425	17				16
57	57		Lowland Conifers	45			12		
11	11		Lowland Spruce/Fir	11					
204	75	129	Northern Hardwood	75				117	12
23	23		Red Pine	7		16			
20	20		Upland Mixed Forest	20					
941	779	162	Total Forested Acres	749	17	18	12	117	29
	83%	17%	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	5D: Unproductive Forest Land	17				
<b>Comments:</b>							
003	Not Available	3J: Water quality / BMPs (stream, river, or lake)	17	5E: Long Term Retention			
<b>Comments:</b>							
004	Available	5B: Maintain for regeneration purposes	12				
<b>Comments:</b>							
Much of overstory has died and stand is converting.							

## Report 5 – Site Conditions

Shingleton Mgt. Unit

Tori Irving : Examiner

Compartment 070

Year of Entry 2016

005	<b>Not Available</b>	<b>3L: Other wildlife concerns</b>	69	3J: Water quality / BMPs (stream, river, or lake)
<b>Comments:</b> Hold this hardwood stand to spread out the hardwood harvests in the deer wintering area. May also have some BMP issues to deal with in the future.				
006	<b>Not Available</b>	<b>3L: Other wildlife concerns</b>	77	3J: Water quality / BMPs (stream, river, or lake)
<b>Comments:</b> Hold harvest to spread out the hardwood harvests for deer. May also have some BMP issues to deal with.				
007	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	18	
<b>Comments:</b>				
008	<b>Not Available</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	25	
<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
<b>Manistique River #1</b>	Other SCA		<b>SCA Removal</b>	
<b>Comments</b>				
Does not meet Old Growth Criteria. Stand is a big mixture of species with some pockets of cedar. There are a lot of old river sloughs that are full of tagalder and flooded for parts of the year.				
<b>Manistique River #2</b>	Other SCA		<b>SCA Removal</b>	
<b>Comments</b>				
Stand does not meet Old Growth Criteria. Stand is consists of mainly Red Maple with scattered White Pine and Spuce Log trees. The stand runs along the Manistique River. It has a lot of old sloughs and low areas.				



**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	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.



Stand	Shingleton Mgt. Unit		Report 8 – Forested Stands			Compartment: 070 Year of Entry: 2016	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
1	4132 - Aspen, Jack Pine	Medium Density	4.5	15		Cut with Cookson Bridge Sale in fall 1999. 74-96-01. Aspen TSI completed.	
2	42210 - Natural Red Pine	High Density Log	16.2	68	81-110	Stand was cut in 1999. Everything was harvested except red pine. Comments from previous entry were to cut this time around.	
4	4130 - Aspen	Medium Density	49.4	5		Stand was cut in summer 2009, Half Speed Sale - 410310601.	
5	4132 - Aspen, Jack Pine	Medium Density	57.0	15		Cut with Cookson Bridge Sale in fall 1999. 74-96-01. Aspen TSI completed. open areas from beaver	
6	6126 - Lowland Jack Pine	Medium Density Pole	16.7	60			
7	42220 - Natural Jack Pine	Low Density Sapling	99.8	5		Stand was cut with sale 41-031-06-01 Half Speed. Scarified in summer 2010. Regen count needed. 2014 Regen count results - 1096 jack pine, 29 black spruce, 49 red pine. FTP is closed and stand is fully stocked.	
10	6122 - Black Spruce	High Density Pole	11.5	80			
11	6125 - Lowland Black Spruce, Jack Pine	Low Density Sapling	13.7	60			
12	42220 - Natural Jack Pine	Low Density Sapling	131.7	5		Stand was cut with sale 41-031-06-01 Half Speed. Scarified in summer 2010. Regen count needed. Regen count needed. 2014 Regen count results - 1555 jack pine, 53 black spruce, FTP is closed and stand is fully stocked.	
13	42220 - Natural Jack Pine	High Density Sapling	62.1	14		Cut with the Letson Road Sale. 75-96-01. FTP number 773. Scarification was completed in 1999. only 30 acres out of 212 done. 2004 regen check showed 372 jack pine, 184 aspen, 169 spruce, 32 WP. Concerns about high ground areas were present then. Stand was looked at in 2006 and adequate stocking was found. FTP was closed.	
15	42210 - Natural Red Pine	High Density Log	6.7	70	51-80	Stand was cut with Half Speed Sale - 41-031-06-01. Scarified in 2010. Stand boundaries were changed and the new stand includes the thick areas of red pine that was not likely scarified.	
16	6126 - Lowland Jack Pine	Medium Density Pole	3.0	70			
17	6120 - Lowland Cedar	High Density Pole	54.3	81			
18	4132 - Aspen, Jack Pine	High Density Sapling	3.1	15		Cut with Letson Road Sale	
19	42220 - Natural Jack Pine	High Density Pole	16.5	70			

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Shingleton Mgt. Unit

## Report 8 – Forested Stands

Compartment: 070  
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	6125 - Lowland Black Spruce, Jack Pine	Low Density Pole	27.3	60		
21	42220 - Natural Jack Pine	High Density Sapling	42.0	15		Clemons Creek Sale, 72-96-01. Scarification completed in 2000. Stand was counted in 2005. 971 jack pine, 249 black spruce.
23	42220 - Natural Jack Pine	High Density Sapling	86.7	15		Manistique River Sale. Scarified in 1999. Regen count in 2003 showed 329 jack pine, 123 red pine, 301 aspen, 48 spruce, 117 fir, 75 red maple. counted again in 2004 - 662 jack pine, 60 red maple, 143 aspen, 196 spruce, 30 fir, 23 tamarack, 75 paper birch.
24	4112 - Maple, Beech, Cherry Association	High Density Log	69.3	80	81-110	nice timber, lots of drains and sloughs
25	6125 - Lowland Black Spruce, Jack Pine	Low Density Sapling	4.1	60		
28	4311 - Pine, Aspen Mix	High Density Sapling	19.9	15		
32	4112 - Maple, Beech, Cherry Association	High Density Log	47.2	90	111-140	Stand swapped from Non-Forested to Forested.
33	6128 - Lowland Coniferous, Mixed Deciduous	Low Density Pole	12.3	90		converting to fir
35	4115 - Y.Birch, Hemlock NH	High Density Log	40.7	90	111-140	
38	4112 - Maple, Beech, Cherry Association	High Density Log	47.4	80	81-110	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	3303 - Mixed Low Density Trees	9.5	No	Unspecified	
8	3302 - Low Density Conifer Trees	7.2	No	Low	
9	6239 - Mixed Emergent Wetland	4.6	No	Low	
14	6239 - Mixed Emergent Wetland	10.5	No	Low	
22	50 - Water	18.6	Unspecified	Unspecified	
26	622 - Lowland Shrub	64.0	Unspecified	Unspecified	
27	50 - Water	8.1	Unspecified	Unspecified	
29	6220 - Alder/willow	3.6	No	Low	
30	3302 - Low Density Conifer Trees	11.4	Natural Regen	Jack Pine	
31	50 - Water	13.9	Unspecified	Unspecified	
34	50 - Water	5.9	Unspecified	Unspecified	
36	50 - Water	2.1	Unspecified	Unspecified	
37	50 - Water	4.5	Unspecified	Unspecified	
39	50 - Water	7.3	Unspecified	Unspecified	
40	50 - Water	5.1	Unspecified	Unspecified	