



# Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41069

Entry Year 2017

Acreage: 516

County Schoolcraft

Management Area: Seney Manistique Swamp

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**Revision Date:** 2015-08-04

**Stand Examiner:** Thomas Burnis

**Legal Description:**

T42N R14W Sections 5, 7, 8 & 18

**Identified Planning Goals:**

The main goal of this compartment is to conduct multiple resource management for current and future generations.

**Soil and topography:**

The soils in Schoolcraft County are currently being mapped by the Soil Survey. Preliminary soils information including Habitat Types can be found in the specific stand comments. In general, the soils are poorly drained organic soils on the low ground and the hardwood types along the river are moderately drained loam complexes. The topography is mostly level, lower type ground with slight rises where upland tree species occur. Along the northeast edge of the compartment is a steep ridge of hardwoods descending into the cedar type which makes up a large part of the compartment. Many oxbows and drainages occur on the west boundary along the Manistique River. The compartment is predominately in the Manistique Sloughs/Muskeg Land Type Association (LTA). However, the southern end of the compartment lies within the Stutts Creek Sands LTA.

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

This compartment stretches a little over 2 miles along the Manistique River. It is a very narrow, non-contiguous pattern. Development consists of permanent dwellings and hunting camps on the private ownerships, all along the river. Hunting is the main use within the compartment.

**Unique Natural Features:**

Auricled twayblade to sw.  
Wood turtle to sw. Loon to s. Sharp-tailed grouse to sw.  
Potential for red-shouldered hawk, goshawk, wood turtle, eagle, osprey, Blanding's turtle, and great blue heron rookery.  
Potential for gray wolf and moose. Potential for rare land snails in conifer/cedar swamp - *Vertigo paradoxa* (mystery vertigo), *Vertigo elatior* (tapered vertigo), *Vertigo hubrichti* (Hubricht's vertigo), *Planogyra asteriscus* (eastern flat-whorl), and *Euconulus alderi*. Potential for black-backed woodpeckers which occur in northern coniferous forests, particularly swampy areas that have been recently burned or selectively logged.  
Potential for ram's head lady's slipper, northern ragwort, limestone oak fern, and round-leaved orchis in cedar swamps.  
Potential for auricled twayblade along Manistique River.  
Compartment contains the Manistique River Floodplain PLU.

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

None known.

**Special Management Designations or Considerations:**

Stands along the Manistique River offer diverse riparian corridors which sometimes contain unique species such as bur oak, elm and green ash within several of the hardwood stands. The corridor was also identified in 2000 by Wildlife Division as a Deeryard. All stand identified as Deeryard were coded as Special Conservation Areas (SCA's).

**Watershed and Fisheries Considerations:**

A section of the Manistique River is found in this compartment and is designated as non-trout water. Species such as walleye, sunfish, and lake sturgeon inhabit this section of the Manistique River. Protection from sand bedload is still a high priority.

**Wildlife Habitat Considerations:**

This compartment is bounded on the west by the Manistique River. General Land Office notes indicate that the first surveyors found uplands dominated by hemlock, white pine, birch, sugar maple, and beech.. Red maple, balsam fir, and basswood were minor components. Cedar appeared to be the primary lowland tree species. Currently the forest species composition appears to be fairly similar to pre-settlement times. However, there is likely a difference in distribution of those

species. Featured species in this compartment are beaver, moose, ruffed grouse, sharp-tailed grouse, snowshoe hare, and white-tailed deer. Wildlife habitat objectives include maintaining white birch as a component in the forest, protecting the closed canopy cedar stands, and regenerating aspen.

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

Surface sediments consist of thin to discontinuous lacustrine (lake) sand and gravel over bedrock. The glacial drift thickness varies from 0 to 10 feet. The Silurian Cabothead Shale subcrops below the glacial drift. The Cabothead does not have a current economic use. The nearest gravel pit is located one-half mile to the east and there may be some potential on the uplands. There is no commercial oil and gas production in the UP.

### **Vehicle Access:**

Most of compartment is not accessible by conventional vehicles. Two track dirt roads run alongside compartment boundaries with access to the interior being by foot.

### **Survey Needs:**

Corners need to be identified in section 7 NWSE and SESW.

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

There are no facilities. Opportunities include hunting.

### **Fire Protection:**

Access to the main body of the compartment would be difficult.

### **Additional Compartment Information:**

The following 5 reports from the Operations Inventory System (OIPC) are attached:

- Cover Type by Age Class
- Cover Type by Management Objective
- Compartment Volume Summary
- Proposed Treatments – No Limiting Factors
- Proposed Treatments – With Limiting Factors

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

- Base feature information, stand numbers, cover types
- Proposed treatments
- Proposed road access system
- Suggested potential old growth

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

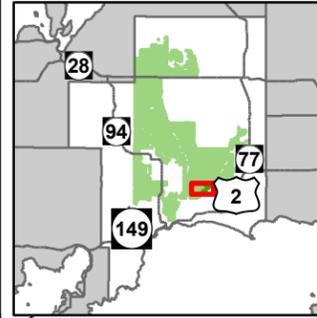
**Total Acres by Cover Type and Age Class**  
**Cover Type by Harvest Method**  
**Proposed Treatments – No Limiting Factors**  
**Proposed Treatments – With Limiting Factors**  
**Stand Details (Forested and Nonforested)**  
**Dedicated and Proposed Special Conservation Areas**  
**Site Condition Details**

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

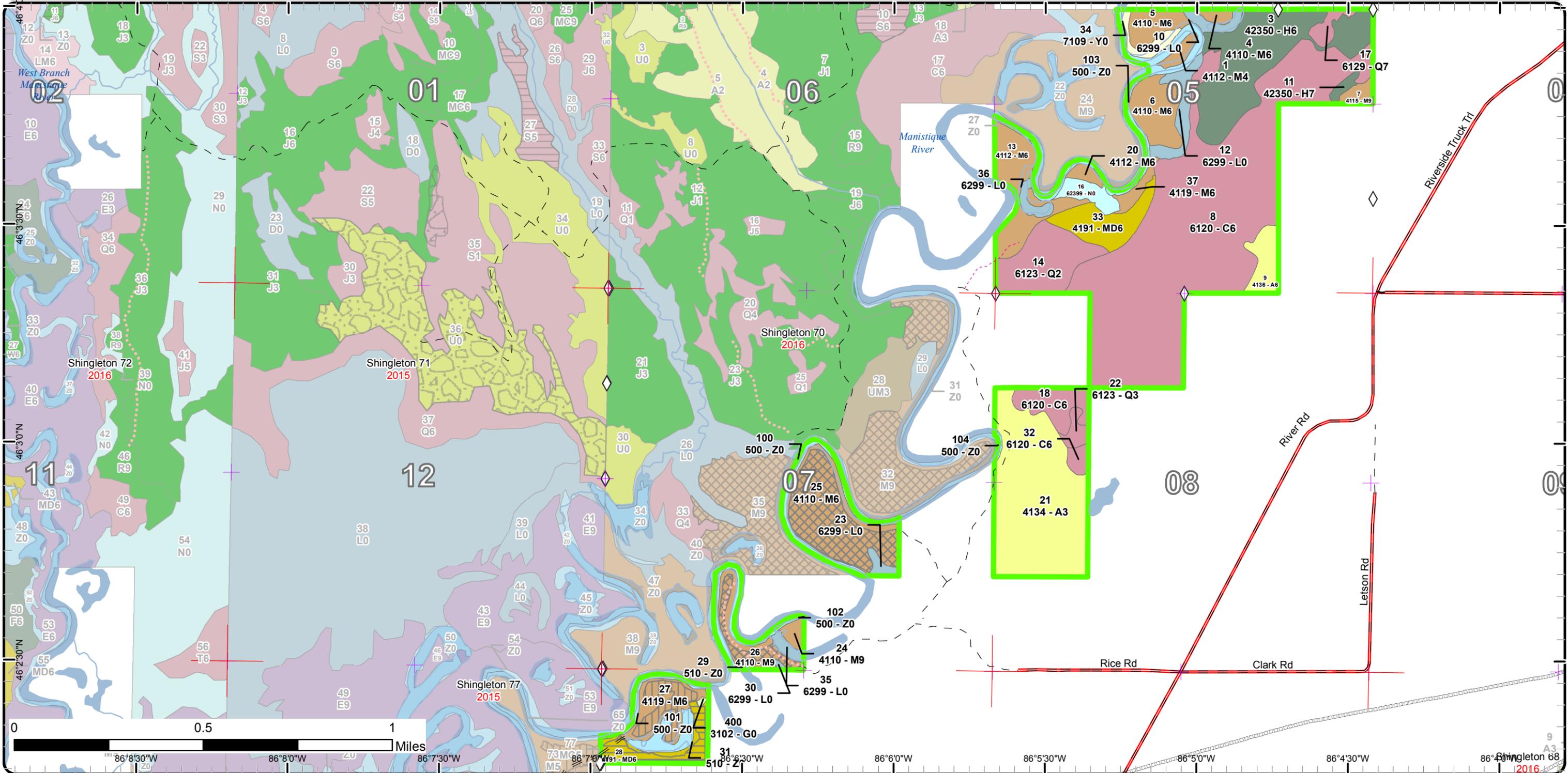
**Base feature information, stand boundaries, cover types, and numbers**  
**Proposed treatments**  
**Site condition boundaries**  
**Details on the road access system**

# Cover Type & Treatments

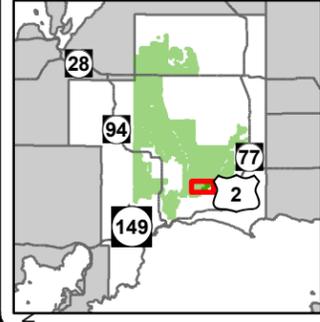
Compartment: 69  
 T42N, R14W, Sec: 5, 7, 8, 18  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: Seney Manistique Swamp  
 YOE: 2017  
 Acres: 516 GIS Calculated  
 Examiner: Thomas Burnis  
 Map Revised: 8/25/2015  
 Map Phase: Review



- |  |  |  |
|--|--|--|
| <ul style="list-style-type: none"> <li>✦ Remonumented Section Corners</li> <li>◇ Field Grade GPS Corners</li> <li>— Miris Corners</li> <li>— Paved Roads</li> <li>— County Gravel Roads</li> <li>— Gravel Roads</li> <li>— Poor Dirt Roads</li> <li>— Trail (Non-Recreation)</li> <li>— Closed Roads</li> <li>— Rivers</li> <li>— Lakes</li> <li>— Pipeline</li> </ul> | <ul style="list-style-type: none"> <li>▨ Selection (Group, Single Tree)</li> <li>▭ Clearcut (w/Reserves)</li> <li>▭ Shelter Wood (w/Reserves)</li> <li>Forest Covertype</li> <li>411 - Northern Hardwood</li> <li>413 - Aspen</li> <li>419 - Mixed Upland Deciduous</li> <li>423 - Other Upland Conifers</li> <li>612 - Lowland Coniferous Forest</li> </ul> | <ul style="list-style-type: none"> <li>Non-Forest Covertype</li> <li>310 - Herbaceous Openland</li> <li>500 - Water</li> <li>622 - Lowland Shrub</li> <li>623 - Emergent Wetland</li> <li>710 - Sand/Soil</li> </ul> |
|--|--|--|

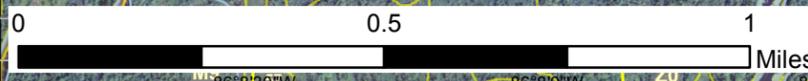
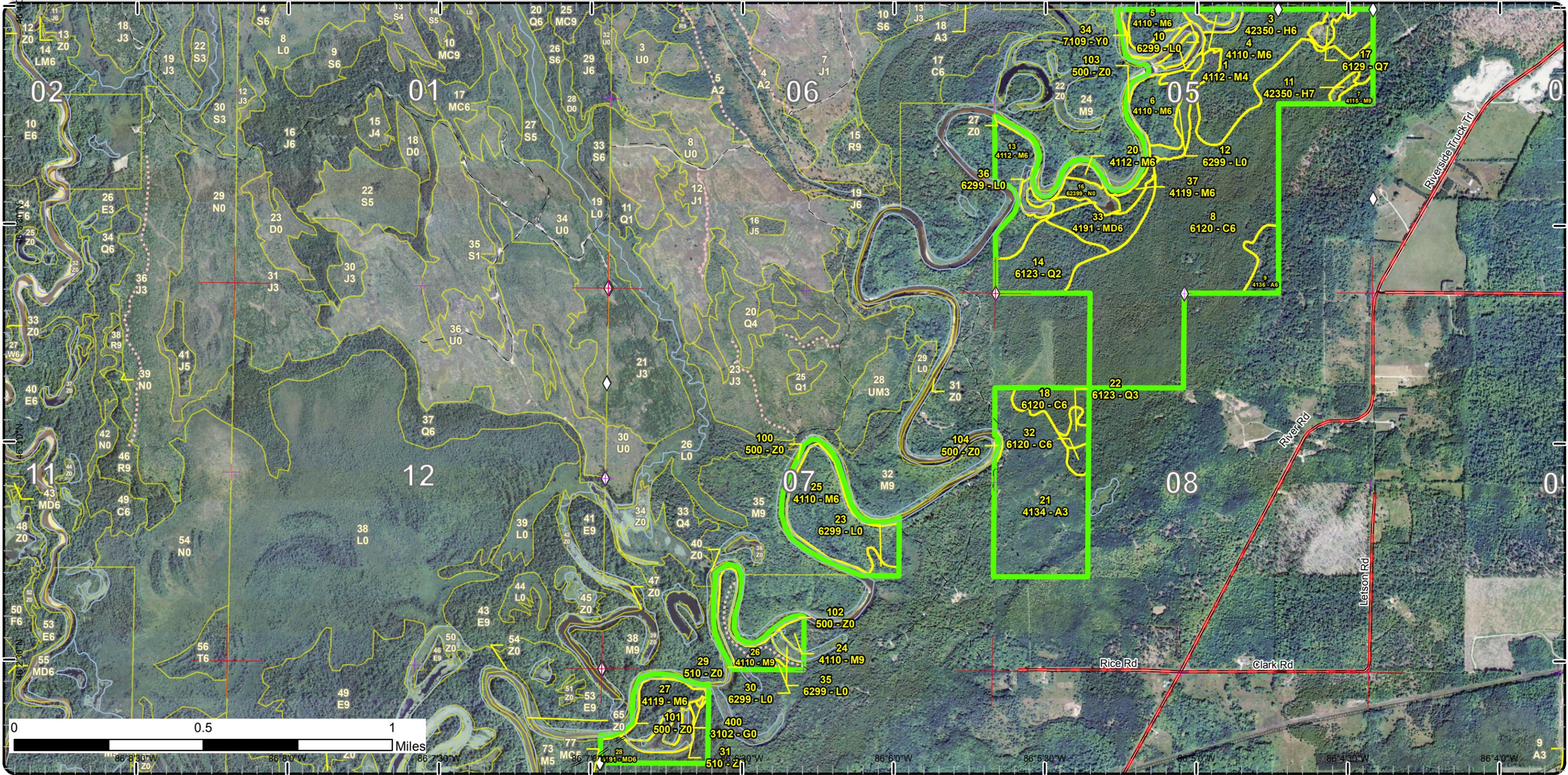


# Stand Boundary Map



Compartment: 69  
 T42N, R14W, Sec: 5, 7, 8, 18  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: Seney Manistique Swamp  
 YOE: 2017  
 Acres: 516 GIS Calculated  
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 Map Revised: 8/25/2015  
 Map Phase: Review

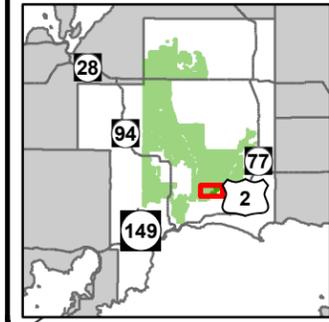
- ✚ Remonumented Section Corners Forest Covertype
  - ◇ Field Grade GPS Corners
  - Miris Corners
  - Paved Roads
  - County Gravel Roads
  - Gravel Roads
  - Poor Dirt Roads
  - Trail (Non-Recreation)
  - Closed Roads
  - Rivers
  - Pipeline
  - ▭ Stand Boundaries
- |                                 |  |
|---------------------------------|--|
| 411 - Northern Hardwood         |  |
| 413 - Aspen                     |  |
| 419 - Mixed Upland Deciduous    |  |
| 423 - Other Upland Conifers     |  |
| 612 - Lowland Coniferous Forest |  |
| Non-Forest Covertype            |  |
| 310 - Herbaceous Openland       |  |
| 500 - Water                     |  |
| 622 - Lowland Shrub             |  |
| 623 - Emergent Wetland          |  |
| 710 - Sand/Soil                 |  |



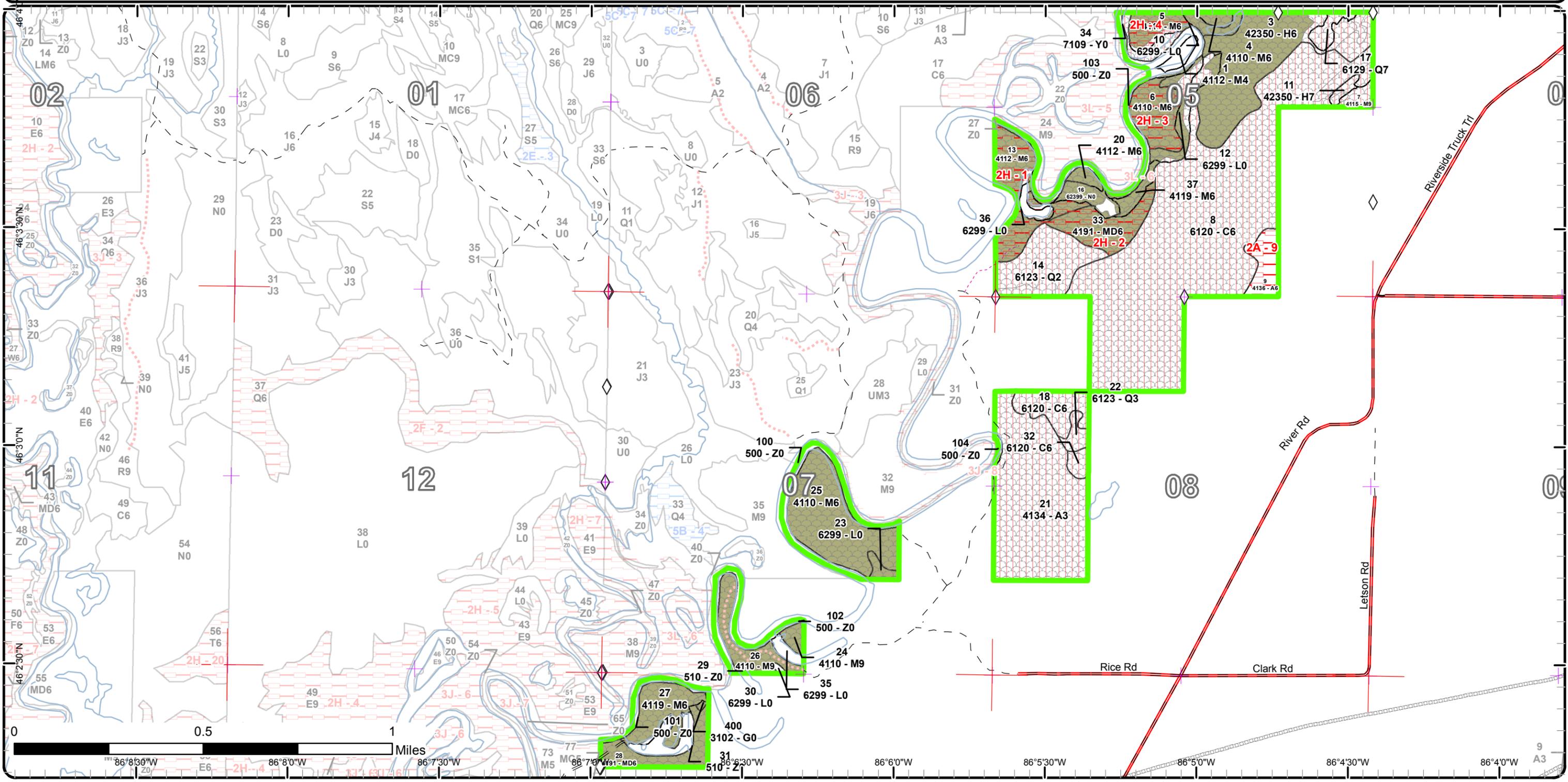
86° 8' 30" W    86° 8' 0" W    86° 7' 30" W    86° 7' 0" W    86° 6' 30" W    86° 6' 0" W    86° 5' 30" W    86° 5' 0" W    86° 4' 30" W    86° 4' 0" W

# Special Conservation Areas & Site Conditions Map

Compartment: 69  
 T42N, R14W, Sec: 5, 7, 8, 18  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: Seney Manistique Swamp  
 YOE: 2017  
 Acres: 516 GIS Calculated  
 Examiner: Thomas Burnis  
 Map Revised: 8/25/2015  
 Map Phase: Review



- |   |   |  |
|---|---|--|
| <ul style="list-style-type: none"> <li>✚ Remonumented Section Corners</li> <li>◇ Field Grade GPS Corners</li> <li>— Miris Corners</li> <li>— Paved Roads</li> <li>— County Gravel Roads</li> <li>— Gravel Roads</li> <li>— Poor Dirt Roads</li> <li>— Trail (Non-Recreation)</li> <li>— Closed Roads</li> <li>— Rivers</li> <li>— Pipeline</li> <li>□ Stand Boundaries</li> </ul> | <ul style="list-style-type: none"> <li>⊠ SCA Removal</li> <li>Site Condition</li> <li>— Unavailable</li> <li>Unavailable Factors</li> <li>2A: Adjacent landowner denied access</li> <li>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</li> <li>Special Conservation Areas</li> <li>■ Potential Old Growth</li> </ul> | <ul style="list-style-type: none"> <li>⊠ Other SCA (No Category Assigned)</li> </ul> |
|---|---|--|



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	63	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	71
Cedar	0	0	0	0	0	0	0	0	0	0	178	0	0	0	0	0	0	0	178
Hemlock	0	0	0	0	0	0	0	0	0	44	0	0	0	2	0	0	0	0	46
Herbaceous Openland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lowland Conifers	0	0	0	3	0	0	22	0	0	0	0	0	0	3	0	0	0	0	28
Lowland Shrub	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Marsh	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	11	0	14	0	0	0	0	0	0	0	25
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	110
Sand, Soil	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
<b>Total</b>	<b>60</b>	<b>0</b>	<b>63</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>0</b>	<b>19</b>	<b>44</b>	<b>192</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>110</b>	<b>518</b>



## Report 2 – Treatment Summary

Shingleton Mgt. Unit  
Year of Entry: 2017

Compartment 69  
Total Compartment Acres: 516

### Acres of Harvest

Commercial Harvest - 49  
Harvests with Site Condition - 0  
Next Step Harvest - 0  
Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Herbaceous Openland	7	0	0	0	0	0	0	0	0	7
Northern Hardwood	0	35	0	0	7	0	0	0	0	42
<b>Total</b>	<b>7</b>	<b>35</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>49</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	49	0	0	0	0	0	0	0	0	49
Next Step	0	0	0	0	0	0	49	0	0	49
<b>Total</b>	<b>49</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>49</b>	<b>0</b>	<b>0</b>	<b>98</b>



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
400	41069_OutOfY OE_1-Cut1	7.2	3102 - Grass	Nonstocked		Unspec ified	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Harvest all trees. Leave oak, cedar and hemlock except for operability. Cut all ash. 2 inch spec of balsam fir. Buffer river and oxbows  
Specs: according to RMZ management guidelines.

Next Step  
Treatments:

Acceptable mixed deciduous and conifer  
Regen:

Other Harvest with stands in compartment 77. Old next step comments: Any current species are acceptable regeneration.  
Comment:

Proposed Start Date: 10/1 /2014

25	41069025-Cut	28.2	4110 - Sugar Maple Association	Poletimber Well	83	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Mark timber to remove down to 80sqft per acre following the complete marker guidelines. Do not plug drainages to the river and maintain a 50  
Specs: foot buffer to the river. All fir may be cut. Do not cut oak or hemlock. Cut in winter due to deer yard. No chipping spec, deer wintering area.

Next Step  
Treatments:

Acceptable Mix of existing overstory.  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

26	41069026-Cut	6.7	4110 - Sugar Maple Association	Sawtimber Well	83	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Mark timber to remove down to 80sqft per acre following the complete marker guidelines. Do not plug drainages to the river and maintain a 50  
Specs: foot buffer to the river. All fir may be cut. Do not cut oak or hemlock. Cut in winter due to deer yard. No chipping spec, deer wintering area.

Next Step  
Treatments:

Acceptable Mix of existing overstory species.  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/16/2015

27	41069027-Cut	7.2	4119 - Mixed Northern Hardwoods	Poletimber Well	83	51-80	Harvest	Shelterwood with Retention	411 - Northern Hardwood	Two-Aged	Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Thin stand to 50-60 sq ft/acre. This will promote hardwood regen and discourage balsam regen. Also will hopefully overwhelm deer. Harvest all  
Specs: ash. Leave oak, cedar and hemlock, except for operability. 2 inch spec. on balsam fir. Buffer river and oxbows according to RMZ management  
guidelines.

Next Step  
Treatments:

Acceptable Any current species are acceptable regeneration.  
Regen:

Other Harvest with stands in compartment 77. Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2014

**Total Treatment  
Acreage Proposed: 49.2**

## Report 5 – Site Conditions

Shingleton Mgt. Unit  
Thomas Burnis : Examiner

Compartment: 69  
Year of Entry: 2017

### Dominant Site Conditions

	2A	2H	3L
Aspen	8		
Cedar			
Hemlock			
Herbaceous Openland			
Lowland Conifers			
Lowland Shrub			
Marsh			
Mixed Upland Deciduous		14	
Northern Hardwood		38	
Sand, Soil			
Water			0
Total Forested Acres	8	52	0
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
1	Unavailable	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	18	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Unable to access stand due to proximity to river, sloughs, oxbows and drainages.							
2	Unavailable	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	14	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Access to stand difficult due to river on one side, large cedar stand with no roads, and also deep drainage ditches or creeks located within stand.							

## Report 5 – Site Conditions

Shingleton Mgt. Unit  
Thomas Burnis : Examiner

Compartment: 69  
Year of Entry: 2017

3	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Island of timber surrounded by river or old river bed.							
4	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Island of timber surrounded by river or old river bed.							
9	<b>Unavailable</b>	<b>2A: Adjacent landowner denied access</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<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>Unspecified</b> <b>Comments</b> Does not meet Criteria	Potential Old Growth		<b>SCA Removal</b>	11
<b>Unspecified</b> <b>Comments</b> Does not meet criteria	Potential Old Growth		<b>SCA Removal</b>	2
<b>Unspecified</b> <b>Comments</b> Does not meet criteria	Potential Old Growth		<b>SCA Removal</b>	13
<b>Unspecified</b> <b>Comments</b> Does not meet criteria	Potential Old Growth		<b>SCA Removal</b>	11
<b>Unspecified</b> <b>Comments</b> SCA-POG-Stand was proposed as potential old growth as the Manistique River corridor in 1997. SCA-Deeryard Soil-490B Pelkie-Moquah-Arnhiem Complex	Potential Old Growth		<b>SCA Removal</b>	1
<b>Unspecified</b> <b>Comments</b> Does not meet Criteria	Potential Old Growth		<b>SCA Removal</b>	33
<b>Unspecified</b> <b>Comments</b> Does not meet criteria	Potential Old Growth		<b>SCA Removal</b>	2
<b>Unspecified</b> <b>Comments</b> SCA-POG-Stand was proposed as potential old growth as the Manistique River corridor in 1997. SCA-Deeryard Soil-490B Pelkie-Moquah-Arnhiem Complex	Potential Old Growth		<b>SCA Removal</b>	3
<b>Unspecified</b> <b>Comments</b> Does not meet criteria	Potential Old Growth		<b>SCA Removal</b>	19
<b>Unspecified</b> <b>Comments</b> Does not meet criteria	Potential Old Growth		<b>SCA Removal</b>	5



## 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>Unspecified</b> <b>Comments</b> Does not meet criteria	Potential Old Growth		<b>SCA Removal</b>	15
<b>Unspecified</b> <b>Comments</b> Does not meet criteria	Potential Old Growth		<b>SCA Removal</b>	13
<b>Unspecified</b> <b>Comments</b> Does not meet criteria	Potential Old Growth		<b>SCA Removal</b>	4
<b>Unspecified</b> <b>Comments</b> Does not meet criteria	Potential Old Growth		<b>SCA Removal</b>	37
<b>Unspecified</b> <b>Comments</b> Does not meet criteria	Potential Old Growth		<b>SCA Removal</b>	2
<b>Unspecified</b> <b>Comments</b> Does not meet criteria	Potential Old Growth		<b>SCA Removal</b>	7
<b>Unspecified</b> <b>Comments</b> Does not meet criteria	Potential Old Growth		<b>SCA Removal</b>	2
<b>Unspecified</b> <b>Comments</b> Does not meet criteria for old growth and covered under deer yard	Other SCA		<b>SCA Removal</b>	63
<b>Unspecified</b> <b>Comments</b> Does not meet criteria for old growth and covered under deer yard	Other SCA		<b>SCA Removal</b>	3
<b>Unspecified</b> <b>Comments</b> Does not meet criteria for old growth and covered under deer yard	Other SCA		<b>SCA Removal</b>	2
<b>Unspecified</b> <b>Comments</b> Does not meet criteria for old growth and covered under deer yard	Other SCA		<b>SCA Removal</b>	10



## 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>Unspecified</b> <b>Comments</b> Does not meet criteria for old growth and covered under deer yard	Other SCA		<b>SCA Removal</b>	162
<b>Unspecified</b> <b>Comments</b> Does not meet criteria for old growth and covered under deer yard	Other SCA		<b>SCA Removal</b>	18
<b>Unspecified</b> <b>Comments</b> Does not criteria for old growth and covered under deer yard	Other SCA		<b>SCA Removal</b>	3
<b>Unspecified</b> <b>Comments</b> Does not meet criteria for old growth and covered under deer yard	Other SCA		<b>SCA Removal</b>	5
<b>Unspecified</b> <b>Comments</b> Does not meet criteria for old growth and covered under deer yard	Other SCA		<b>SCA Removal</b>	4
<b>Unspecified</b> <b>Comments</b> Does not meet criteria for old growth and covered under deer yard	Other SCA		<b>SCA Removal</b>	5
<b>Unspecified</b> <b>Comments</b> Does not meet criteria for old growth and covered under deer yard	Other SCA		<b>SCA Removal</b>	4
<b>Unspecified</b> <b>Comments</b> Does not meet criteria for old growth and covered under deer yard	Other SCA		<b>SCA Removal</b>	7
<b>Unspecified</b> <b>Comments</b> Does not meet criteria for old growth and covered under deer yard	Other SCA		<b>SCA Removal</b>	1



### 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

<b>Conservation Area</b>	<b>Type</b>	<b>Description</b>
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4112 - Maple, Beech, Cherry Association	Poletimber Poor	2.5	60	1-50	
3	42350 - Upland Hemlock	Poletimber Well	44.2	87	171-200	OPIC - FMD: SCA-POG-Stand is being proposed as potential old growth to fit into the Manistique River corridor stands that were previously proposed as POG in 1997. SCA-Deeryard Soil-25B Proper Fine Sand SCA-POG removal, does not meet criteria.
4	4110 - Sugar Maple Association	Poletimber Well	1.9	83	111-140	OPIC - FMD: SCA-POG-Stand was proposed as potential old growth as the Manistique River corridor in 1997. SCA-Deeryard Sawlogs cut out in 1972. Soil-490B Pelkie-Moquah-Arnhiem Complex SCA-POG removal, does not meet criteria.
5	4110 - Sugar Maple Association	Poletimber Well	7.2	83	111-140	OPIC - FMD: SCA-POG-Stand was proposed as potential old growth as the Manistique River corridor in 1997. SCA-Deeryard Sawlogs cut out in 1972. Soil-490B Pelkie-Moquah-Arnhiem Complex SCA-POG removal, does not meet criteria.
6	4110 - Sugar Maple Association	Poletimber Well	12.5	83	111-140	OPIC - FMD: SCA-POG-Stand was proposed as potential old growth as the Manistique River corridor in 1997. SCA-Deeryard Sawlogs cut out in 1972. Soil-490B Pelkie-Moquah-Arnhiem Complex SCA-POG removal, does not meet criteria.
7	4115 - Y.Birch, Hemlock NH	Sawtimber Well	2.8	86	81-110	OPIC - FMD: SCA-DeeryardMark to cut with orange paint. Soil-100E Gulliver-Amadon Silt Loams[4/12/07 BB] Stand is now on proposal 13-07, "Comp 69 Sale". Residual Basal Areas = 3 sq ft of hemlock, 46 sq ft of cedar, 23 sq ft of hard maple, 36 sq ft of yellow birch and 3 sq ft of beech. Actual sale acres for stand is 2.[1/25/2010 bb] Sale is now closed, cut December 2009, TCR Date is 1/11/2010, Stand is now on Regen Timeclock to check in 2014.
8	6120 - Lowland Cedar	Poletimber Well	165.3	92	171-200	OPIC - FMD: .SCA-Deeryard Soil-36 Carbondale-Lupton-Tawas Mucks
9	4136 - Aspen, Mixed Conifer	Poletimber Well	7.9	76	111-140	OPIC - FMD: Set up last entry but not cut. Soil-289F Wallace Sand
11	42350 - Upland Hemlock	Sawtimber Poor	1.6	120	1-50	Stand was a ridge of white birch which was cut in 2010. A residual canopy of 50 sqft of hemlock now classifies the stand as an H7. Birch and aspen have regenerated in the understory.
13	4112 - Maple, Beech, Cherry Association	Poletimber Well	18.3	83	111-140	OPIC - FMD: SCA-POG-Stand was proposed as potential old growth as the Manistique River corridor in 1997. SCA-Deeryard Old growth. Sawlogs cut out in 1972. Soil-490B Pelkie-Moquah-Arnhiem Complex SCA-POG removal, does not meet criteria.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
14	6123 - Lowland Fir	Sapling Medium	21.6	55	51-80	OPIC - FMD: SCA-DeeryardSand falling apart with thick fir regeneration and some areas with very nice red maple regen 30-40 feet tall. Allow overstory to fall and let regen grow. Due to the location and low stocking of this stand, the difficulty for access and damage to the existing regen, it would not be worth trying to salvage the overstory. Soil-491D Clemons-Deford Complex.
17	6129 - Mixed Coniferous Lowland Forest	Sawtimber Poor	3.3	120	1-50	<p>OPIC - FMD: SCA-Deeryard Stand is mostly an upland type with a small stand of nice red pine logs in southern tip. Stand also includes a lowland black spruce type of about 2 acres on west side. Leave a few scattered red and white pine seed trees by marking all other pine to cut with orange paint. Leave all hemlock, cut all other species. Soil-25B Proper Fine Sand. A species mix of fir, spruce, birch, aspen and pine is acceptable regeneration for this stand.</p> <p>[4/12/07 BB] Stand is now on proposal 13-07, "Comp 69 Sale". Residual Basal Areas = 10 sq ft of white pine, 5 sq ft of red pine, 19 sq ft of hemlock, 7 sq ft of cedar. Actual sale acres for stand is 4.</p> <p>[1/25/2010 bb] Sale is now closed, cut December 2009, TCR Date is 1/11/2010, Stand is now on Regen Timeclock to check in 2014.</p>
18	6120 - Lowland Cedar	Poletimber Well	10.2	92	Unspecified	OPIC - FMD: SCA-Deeryard Soil-36 Carbondale-Lupton-Tawas Mucks
20	4112 - Maple, Beech, Cherry Association	Poletimber Well	2.1	83	111-140	OPIC - FMD: SCA-POG-Stand was proposed as potential old growth as the Manistique River corridor in 1997. SCA-Deeryard Sawlogs cut out in 1972. Soil-490B Pelkie-Moquah-Arnhiem Complex SCA-POG removal, does not meet criteria.
21	4134 - Aspen, Spruce/Fir	Sapling Well	63.1	13	Immature	OPIC - FMD: SCA-Deeryard Sale was cut in December 2001-January 2002 (Burried Cable Sale 41-49-97-01). Aspen regeneration good on dryer ground. Lacking in wet areas. Stand was originally typed as an F6 with a fir MO. Stand to south was typed as a B5 with an aspen MO. Both stands are now combined as one as an A3 with an aspen MO. Soil-491D Clemons Deford Complex
22	6123 - Lowland Fir	Sapling Well	3.0	26	Immature	OPIC - FMD: SCA-Deeryard
24	4110 - Sugar Maple Association	Sawtimber Well	2.4	83	81-110	OPIC - FMD: SCA-POG-Stand was proposed as potential old growth as the Manistique River corridor in 1997. SCA-Deeryard Old growth. Soil-490B Pelkie-Moquah-Arnhiem Complex Old growth SCA removal, does not meet criteria.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
25	4110 - Sugar Maple Association	Poletimber Well	32.6	83	111-140	OPIC - FMD: SCA-POG-Stand was proposed as potential old growth as the Manistique River corridor in 1997. SCA-Deeryard Soil-490B Pelkie-Moquah-Arnhiem Complex SCA-POG removal, does not meet criteria.  East 4 acres of stand is red maple/white birch mix with a heavy fir understory. Rest of stand is nice hard maple with no understory or regen. Stand received a 16 inch diameter limit cut in 1954.
26	4110 - Sugar Maple Association	Sawtimber Well	10.8	83	81-110	OPIC - FMD: SCA-POG-Stand was proposed as potential old growth as the Manistique River corridor in 1997. SCA-Deeryard Soil-490B Pelkie-Moquah-Arnhiem Complex Old Growth SCA removal, does not meet criteria.
27	4119 - Mixed Northern Hardwoods	Poletimber Well	13.1	83	51-80	OPIC - FMD: SCA-POG-Stand was proposed as potential old growth as the Manistique River corridor in 1997. SCA-Deeryard Soil- Pelkie-Moquah-Arnhiem Complex SCA-POG removal, does not meet criteria.
28	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	11.1	74	81-110	OPIC - FMD: SCA-POG-Stand was proposed as potential old growth as the Manistique River corridor in 1997. SCA-Deeryard Soil-491D Clemons Deford Complex SCA-POG removal, does not meet criteria.
32	6120 - Lowland Cedar	Poletimber Well	2.5	92	Unspecified	OPIC - FMD: SCA-Deeryard Soil-36 Carbondale-Lupton-Tawas Mucks
33	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	13.6	91	51-80	OPIC - FMD: SCA-POG-Stand is being proposed as potential old growth to fit into the Manistique River corridor stands that were previously proposed as POG in 1997. SCA-Deeryard Stand has had some cutting in early 60's. About 2 acre area in north central part of stand is solid W9 of very nice white pine. Aspen is very large and scattered. Very thick fir regen in understory. SI for fir is 43. Old growth. Soils-491D Clemons-Deford Deep ditches with narrow creeks dissect stand. Allow understory of advanced regen to become stand. SCA-POG removal, does not meet criteria.
37	4119 - Mixed Northern Hardwoods	Poletimber Well	3.1	83	111-140	OPIC - FMD: SCA-POG-Stand was proposed as potential old growth as the Manistique River corridor in 1997. SCA-Deeryard Sawlogs cut out in 1972. Soil-490B Pelkie-Moquah-Arnhiem Complex SCA-POG removal, does not meet criteria.



Stand	Cover Type	Acres	Managed Site	General Comments:
10	6299 - Lowland Shrub (OI)	3.0	No	OPIC - FMD: SCA-POG-Stand was proposed as potential old growth as the Manistique River corridor in 1997. SCA-Deeryard Soil-490B Pelkie-Moquah-Arnhiem Complex
12	6299 - Lowland Shrub (OI)	7.3	No	OPIC - FMD: SCA-POG-Stand was proposed as potential old growth as the Manistique River corridor in 1997. SCA-Deeryard Soil-490B Pelkie-Moquah-Arnhiem Complex
16	62399 - Marsh (OI)	5.1	No	OPIC - FMD: SCA-POG-Stand was proposed as potential old growth as the Manistique River corridor in 1997. SCA-Deeryard Soil-490B Pelkie-Moquah-Arnhiem Complex
23	6299 - Lowland Shrub (OI)	2.0	No	OPIC - FMD: SCA-POG-Stand was proposed as potential old growth as the Manistique River corridor in 1997. SCA-Deeryard Soil-490B Pelkie-Moquah-Arnhiem Complex
29	510- Water (OI)	0.1	No	OPIC - FMD: OI Stand Year Origin was
30	6299 - Lowland Shrub (OI)	0.4	No	OPIC - FMD: SCA-POG-Stand was proposed as potential old growth as the Manistique River corridor in 1997. SCA-Deeryard
31	510- Water (OI)	5.6	No	OPIC - FMD: OI Stand Year Origin was
34	7109 - Sand (OI)	3.5	No	OPIC - FMD: SCA-Deeryard Beech. Soil-490B Pelkie-Moquah-Arnhiem Complex
35	6299 - Lowland Shrub (OI)	1.9	No	OPIC - FMD: SCA-POG-Stand was proposed as potential old growth as the Manistique River corridor in 1997. SCA-Deeryard
36	6299 - Lowland Shrub (OI)	2.3	No	
100	500 - Water	6.5	No	Manistique River
101	500 - Water	2.7	No	Manistique River
102	500 - Water	5.4	No	
103	500 - Water	12.7	No	Manistique River



Stand	Cover Type	Acres	Managed Site	General Comments:
104	500 - Water	0.6	No	Manistique River
400	3102 - Grass	0.4	No	OPIC - FMD: SCA-POG-Stand was proposed as potential old growth as the Manistique River corridor in 1997. SCA-Deeryard Soil-490B Pelkie-Moquah-Arnhiem Complex SCA-POG removal, does not meet criteria.