



# Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41002

Entry Year 2018

Acreage: 1,287

County Schoolcraft

Management Area: Fox River Complex

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**Revision Date:** 2016-08-31

**Stand Examiner:** Jennifer Burnham

**Legal Description:**

T45N, R13W, Sections 2, 11, and 14

**Identified Planning Goals:**

Management activities that coordinate multiple uses and benefits for the people of Michigan including recreation, timber production and protection/enhancement of wildlife habitat are desirable. The Fox River Plan provides guidance for protection of the Fox River and its tributaries by defining parameters for forest management treatments.

**Soil and topography:**

The uplands generally feature rolling (sometimes steep) terrain and sandy soils such as Kalkaska and Wallace sands, while the lowlands feature a variety of flat, poorly-drained muck and peat soils such as the Carbondale-Lupton-Tawas soils group. Lowland terrain accounts for most of the area in this compartment.

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

The Fox River Club owns a significant block of land within the Compartment. The area is heavily used for recreational purposes such as hunting and snowmobiling.

**Unique Natural Features:**

None known.

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

None known.

**Special Management Designations or Considerations:**

The Old Seney Road is both a county road and a designated snowmobile trail. The Fox River is a designated Natural River with an approved management plan.

**Watershed and Fisheries Considerations:**

This compartment contains the Dead Creek and the Fox River. The Fox River is designated a Natural River. The Dead Creek is a tributary to the Fox River, and the Fox River a tributary to the Manistique River. The Fox River is designated a "Natural River" which is one of two systems (Two Hearted #2) in the Upper Peninsula with "Natural River" status. Special regulation may apply to rivers that their tributaries designated as Natural Rivers.

**Wildlife Habitat Considerations:**

During pre-settlement times, the upland areas in this compartment supported a mixed deciduous/coniferous forest. The deciduous species of this forest consisted primarily of sugar maple, basswood, elm and beech, while hemlock was the dominant upland conifer. Lowland areas primarily supported coniferous swamps containing tamarack, cedar, and spruce. The Fox River passes through the southern portion of this compartment. Lowland areas within this compartment appear to be similar to pre-settlement species composition. Upland areas show an increase in the aspen component and a corresponding decrease in sugar maple, basswood, elm, beech, hemlock, and white pine. The wildlife habitat management regime consists of protecting the hydrology along the Fox River, providing age and structural diversity between lowland conifer stands, and retaining light seeded species as well as den trees and soft mast (yellow birch catkins). Variable retention guidelines are being adhered to in stands scheduled for final harvest. This compartment lies within the Fox River Complex Management Area and featured species within this MA are American black bear, northern goshawk, snowshoe hare, spruce grouse, and white-tailed deer.

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

Surface sediments consist of peat and muck and lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Ordovician Stonington and Big Hill Formations subcrop below the glacial drift. The Stonington and Big Hill could be used for stone/dolomite. Gravel pits are not found in the general area, but there may be some potential on the uplands. There is no commercial oil and gas production in the UP.

**Vehicle Access:**

The Old Seney Road is a well-maintained county road.

**Survey Needs:**

Not at this time.

**Recreational Facilities and Opportunities:**

The Old Seney Road is a designated snowmobile trail. No other improved facilities exist within this compartment.

**Fire Protection:**

Due to the wet lowland terrain and soils, access to most of the compartment is difficult.

**Additional Compartment Information:****The following reports from the Inventory are attached:**

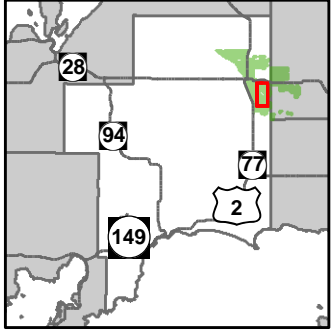
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

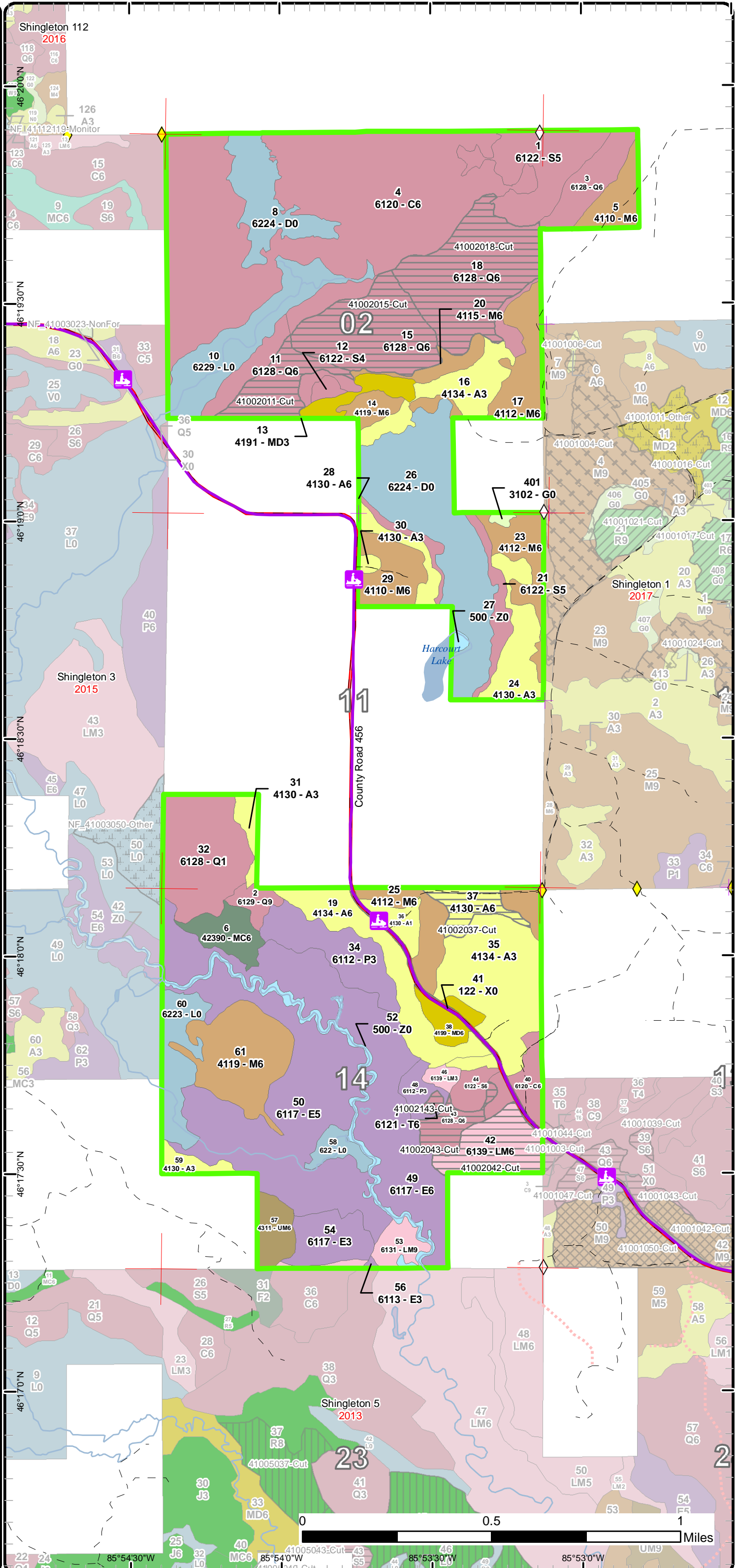
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 2  
 T45N,R13W, Sec: 02, 11, 14  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: Fox River Complex  
 YOE: 2018  
 Acres: 1,287 GIS Calculated  
 Examiner: Jennifer Burnham  
 Map Revised: 12/6/2016  
 Map Phase: Post Review



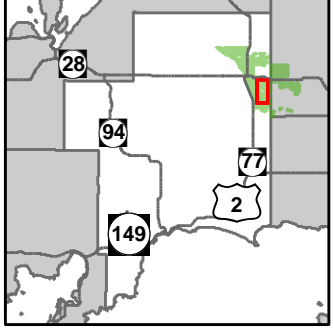
- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- Snowmobile Trails
- Designated Snowmobile Trails
- County Gravel Roads
- Poor Dirt Roads
- Closed Roads
- Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- Lakes



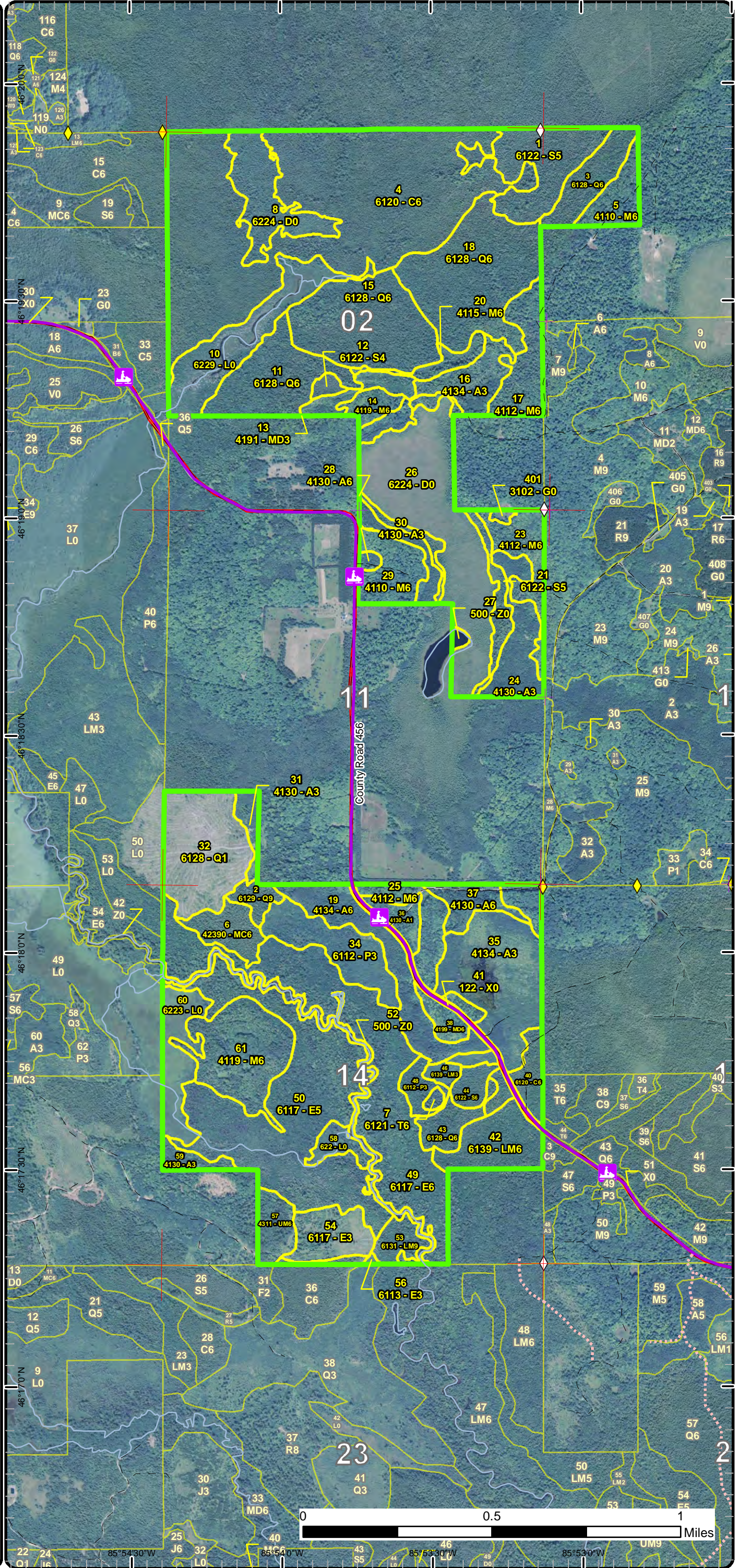
85°54'30"W 85°54'0"W 85°53'30"W 85°53'0"W

# Stand Boundary Map

Compartment: 2  
 T45N,R13W, Sec: 02, 11, 14  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: Fox River Complex  
 YOE: 2018  
 Acres: 1,287 GIS Calculated  
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 Map Revised: 12/6/2016  
 Map Phase: Post Review

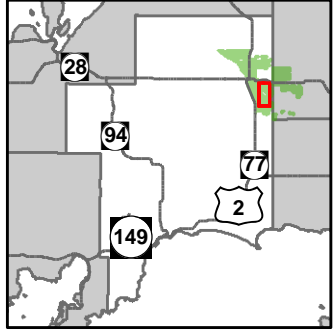


- Miris Corners
- Remonumented Section Corners
- Survey Grade GPS Corners
- Field Grade GPS Corners
- Snowmobile Trails
- Designated Snowmobile Trails
- County Gravel Roads
- Poor Dirt Roads
- Closed Roads
- Rivers
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- Stand Boundaries
- 411 - Northern Hardwood
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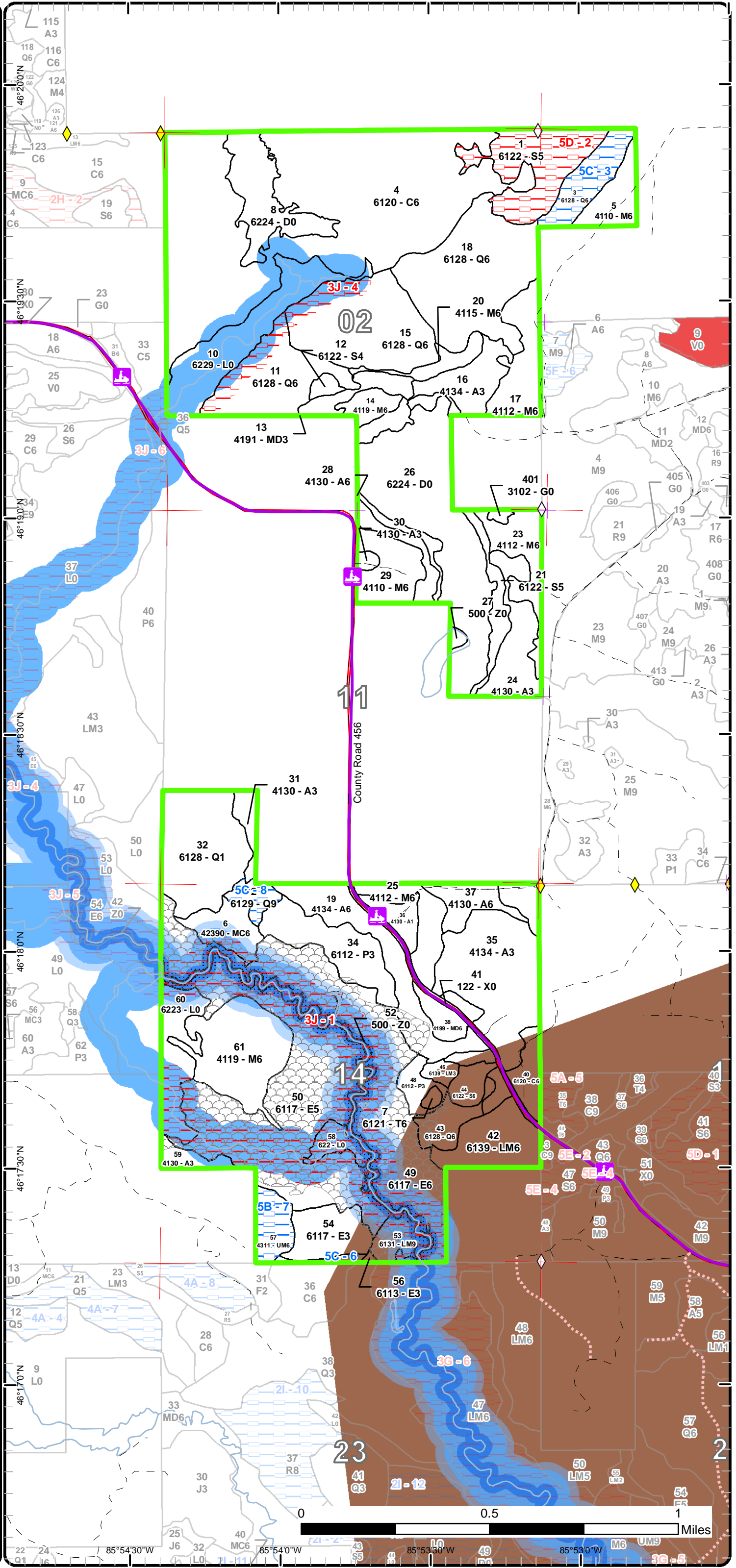


# Special Conservation Areas & Site Conditions Map

Compartment: 2  
 T45N,R13W, Sec: 02, 11, 14  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: Fox River Complex  
 YOE: 2018  
 Acres: 1,287 GIS Calculated  
 Examiner: Jennifer Burnham  
 Map Revised: 12/6/2016  
 Map Phase: Post Review



- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◆ Field Grade GPS Corners
- Snowmobile Trails
- Designated Snowmobile Trails
- County Gravel Roads
- - Poor Dirt Roads
- - - Closed Roads
- Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- Stand Boundaries
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- High Priority Trout Stream Buffer
- Deer Winter Range



# Report 1 – Total Acres by Cover Type and Age Class

Shingleton Mgt. Unit

Compartment 2

Year of Entry 2018

Jennifer Burnham : Examiner



## 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	7	78	21	46	0	0	0	0	0	0	0	0	0	0	0	0	11	162
Cedar	0	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	0	204
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Aspen/Balsam Poplar	0	0	26	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Lowland Conifers	0	41	0	0	0	0	0	0	0	0	6	170	0	0	0	0	0	0	217
Lowland Deciduous	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	194	211
Lowland Mixed Forest	0	0	3	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	35
Lowland Shrub	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62
Lowland Spruce/Fir	0	0	0	0	0	0	6	13	3	0	0	32	0	0	0	0	0	0	53
Mixed Upland Deciduous	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9	17
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	114	0	0	0	0	0	27	141
Tamarack	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Treed Bog	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Upland Conifers	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	13
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	11
Urban	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Water	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
<b>Total</b>	<b>188</b>	<b>65</b>	<b>107</b>	<b>30</b>	<b>53</b>	<b>0</b>	<b>6</b>	<b>13</b>	<b>3</b>	<b>11</b>	<b>19</b>	<b>553</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>241</b>	<b>1285</b>



## Report 2 – Treatment Summary

Shingleton Mgt. Unit  
Year of Entry: 2018

Compartment 2  
Total Compartment Acres: 1,287

### Acres of Harvest

Commercial Harvest - 163  
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
Aspen	11	0	0	0	0	0	0	0	0	11
Lowland Conifers	130	0	0	0	0	0	0	0	0	130
Lowland Mixed Forest	22	0	0	0	0	0	0	0	0	22
<b>Total</b>	<b>163</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>163</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	163	0	0	0	0	0	0	0	0	163
Next Step	0	0	0	0	0	0	163	0	0	163
<b>Total</b>	<b>163</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>163</b>	<b>0</b>	<b>0</b>	<b>326</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
11	41002011-Cut	19.3	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	105	111- 140	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary

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

Prescription Final harvest. Do not cut hemlock and sub merchantable cedar. Red line areas of higher elevations to not cut. There is one within each stand (seen on air photo) and left for seed source of hemlock and cedar. Avoid pockets of pure cedar with red line. Protect advanced regeneration found in the Q2 understory.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Regeneration will be the species that are currently present.

Other

Areas of transition along the East side of the stands are to be left out of the sale but could be thinned through later on with adjacent hardwood stands.

Comment: Sale specs must include a provision requiring the purchaser to notify the Seney Snowmobile Association when the sale is purchased to coordinate harvesting operations along the snowmobile trail.

Proposed Start Date: 10/01/2017

15	41002015-Cut	42.2	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	105	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest. Do not cut hemlock and sub merchantable cedar. Red line areas of higher elevations to not cut. There is one within each stand (seen on air photo) and left for seed source of hemlock and cedar. Avoid pockets of pure cedar with red line. Protect advanced regeneration found in the Q2 understory.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Regeneration will be the species that are currently present.

Other

Areas of transition along the East side of the stands are to be left out of the sale but could be thinned through later on with adjacent hardwood stands.

Comment: Sale specs must include a provision requiring the purchaser to notify the Seney Snowmobile Association when the sale is purchased to coordinate harvesting operations along the snowmobile trail.

Proposed Start Date: 10/01/2017

18	41002018-Cut	56.9	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	105	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest. Do not cut hemlock and sub merchantable cedar. Red line areas of higher elevations to not cut. There is one within each stand (seen on air photo) and left for seed source of hemlock and cedar. Avoid pockets of pure cedar with red line. Protect advanced regeneration found in the Q2 understory.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Regeneration will be the species that are currently present.

Other

Areas of transition along the East side of the stands are to be left out of the sale but could be thinned through later on with adjacent hardwood stands.

Comment: Sale specs must include a provision requiring the purchaser to notify the Seney Snowmobile Association when the sale is purchased to coordinate harvesting operations along the snowmobile trail.

Proposed Start Date: 10/01/2017





Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
37	41002037-Cut	11.0	4130 - Aspen	Poletimber Well	55	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary

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

Prescription Final Harvest. Leave Cherry and any cedar that may be present.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen will be the same spp that are present. Stems/ac should increase in the aspen.

Regen:

Other Stand is small in acreage, Retention is not needed because of the amount of mature aspen that will be on the edges near the transition to the hardwoods.

Proposed Start Date: 10/01/2017

42	41002042-Cut	22.3	6139 - Mixed Lowland Forest	Poletimber Well	106	81-110	Harvest	Clearcut with Retention	6131 - Hemlock, White Pine, Maple, Birch	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Cut all species except for cedar and hemlock. Harvest in frozen conditions to protect wet soils.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regeneration will be species that are present now.

Regen:

Other Protect drainage if it ends up going through the stand. Not found at this time.

Comment:

Proposed Start Date: 10/01/2016

43	41002043-Cut	10.1	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	102	51-80	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Cut all species except for cedar. Did not see hemlock; if present do not cut. Harvest in winter to protect wet soils.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regeneration will be the same species that is present now.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2016

43	41002143-Cut	1.4	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	102	51-80	Harvest	Clearcut	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Cut all species except for cedar. Did not see hemlock; if present do not cut. Harvest in winter to protect wet soils.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regeneration will be the same species that is present now.

Regen:

Other No retention due to the small acreage. Surrounding trees will be the seed source for regeneration. Protect drainage if it ends up going through the stand. Not found at this time.

Proposed Start Date: 10/01/2016

**Total Treatment Acreage Proposed: 163.2**

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Jennifer Burnham : Examiner

Compartment: 2  
Year of Entry: 2018

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	5C	3J	5D
		With Condition	Not Available					
162	162	0	0	Aspen			0	
204	204	0	0	Cedar				
1	1	0	0	Herbaceous Openland				
32	32	0	0	Lowland Aspen/Balsam Poplar				
217	177	22	18	Lowland Conifers		22	18	
211	104	0	108	Lowland Deciduous			108	
35	29	2	5	Lowland Mixed Forest		2	5	
62	45	0	17	Lowland Shrub			17	
55	22	0	32	Lowland Spruce/Fir				32
18	18	0	0	Mixed Upland Deciduous				
141	141	0	0	Northern Hardwood			0	
1	1	0	0	Tamarack				
100	100	0	0	Treed Bog				
13	9	0	4	Upland Conifers			4	
11	0	11	0	Upland Mixed Forest	11			
7	7	0	0	Urban				
17	1	0	16	Water			16	
1,287	1,052	35	199	Total Forested Acres	11	24	167	32
	82%	3%	16%	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	3J: Water quality / BMPs (stream, river, or lake)	149	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Fox River buffer							
2	Unavailable	5D: Unproductive Forest Land	32	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Jennifer Burnham : Examiner

Compartment: 2  
Year of Entry: 2018

3	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> wait to treat when the conifers to the south have been harvested and starting to regenerate.							
4	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer for Fox River HCVA Plan							
6	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Acreage too small, wait to harvest with stand to compartment to the south.							
7	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



**Report 5 – 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
	Potential Old Growth		<b>SCA Removal</b>	84
<b>Comments</b> Already a HCVA - Natural Rivers.				
	Potential Old Growth		<b>SCA Removal</b>	101
<b>Comments</b> Already a HCVA - Natural Rivers.				



**Report 6 – 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.
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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6122 - Black Spruce	Poletimber Medium	32.4	103	1-50	Poor quality stand due to high water table. Cedar is found along the edges, the white pine is found on the small knobs of higher ground. FMD: Slow-growing, semi-open spruce on wet, boggy ground - operability is questionable. Soils - Carbondale, Lupton and Tawas - mucks and peat
2	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	5.8	95	81-110	Nice stand, old stumps, should have been harvested with the adjacent stand. Area is wet but freezable. There is a small creek 2' wide on the south side of the stand. Not sure of all it's location, not on the topo maps.  A small amount of acreage in HCVA - Fox River (due to possible drainages into the Fox River.) Soils - Carbondale, Lupton and Tawas - mucks and peat
3	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	16.3	105	81-110	Soils - Carbondale, Lupton and Tawas - mucks and peat. Natural disturbance is creating a mosaic of age classes in this stand, but cedar will probably dominate over time. Harvest now and regenerate naturally - a mix of any commercial timber species will be considered acceptable regeneration. This harvest is a clearcut with reserves. Retention guidelines - Do not cut any hemlock, and retain enough cedar and submerchantable conifers to provide approximately 8-10% cover for the stand area. This includes advanced regeneration found in the the Q3 understory, which should be protected whenever possible. Note: Sale specs must include a provision requiring the purchaser to notify the Seney Snowmobile Association when the sale is purchased to coordinate harvesting operations along the snowmobile trail. Rh (8/22/14) Sale sold to zellar ex under contract number 41-023-08-01 osr conifers Unit returned uncut land owner denied access.
4	6120 - Lowland Cedar	Poletimber Well	192.1	103	81-110	Some areas thick with cedar of fair quality. Other areas are more open with tag alder and some pockets of just marsh grass. High water table is not allowing a good SI. White pine, red maple and birch are mainly found on the 1' elevation difference knobs scattered around the stand. There is a small amount of acreage in HCVA - Fox River Plan. Soils - Carbondale, Lupton and Tawas - mucks and peat
5	4110 - Sugar Maple Association	Poletimber Well	12.4	105	81-110	Stand harvested in the early 90's. Slopes off into the Q type. BA needs a little more time and then harvest again. Beech that was in the over story is now dead.
6	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	12.8	95	51-80	South of the small 2' creek in the stand. Mushy ground but would be able to freeze. Stand has old stumps but ground a little lower than stand 2 and is still filling in. DBH smaller and less BA.  Acreage in HCVA - Fox River (due to possible drainages into the Fox River.) Soils - Carbondale, Lupton and Tawas - mucks and peat



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
7	6121 - Tamarack	Poletimber Well	1.4	102	51-80	<p>Tamarack has insect damage. All species except for cedar are over mature and need to be harvested. The North chunk is a knob of high ground with bracken fern.</p> <p>OPIC - FMD: Soils - Carbondale, Lupton and Tawas - mucks and peat Mixed stand but cedar is beginning to express dominance. The understory varies considerably from hardwoods to pure cedar.</p>
11	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	32.8	105	111-140	<p>Only a small portion of acres are found in the HCVA - Fox River Plan Soils - Carbondale, Lupton and Tawas - mucks and peat Natural disturbance is creating a mosaic of age classes in this stand, but cedar will probably dominate over time. Harvest now and regenerate naturally - a mix of any commercial timber species will be considered acceptable regeneration. Buffer the river in accordance with the Fox River Plan, and watch out for unmapped tributaries to Dead Creek that may also need to be buffered.</p> <p>This harvest is a clearcut with reserves. Retention guidelines - Do not cut any hemlock, and retain enough cedar and submerchantable conifers to provide approximately 8-10% cover for the stand area. This includes advanced regeneration found in the the Q3 understory, which should be protected whenever possible.</p> <p>Note: Sale specs must include a provision requiring the purchaser to notify the Seney Snowmobile Association when the sale is purchased to coordinate harvesting operations along the snowmobile trail. RH(8/22/14) Sale sold to zellar ex under contract number 41-023-08-01 osr conifers Unit returned uncut land owner denied access.</p>
12	6122 - Black Spruce	Poletimber Poor	2.5	70	1-50	<p>I little better BA than a bog. High water table keeps stand from being fully stocked.</p> <p>OPIC - FMD: Treed bog with a few merchantable sized trees. SI too low for management. Soils - Carbondale, Lupton and Tawas - mucks and peat</p>
13	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	9.0	23	1-50	<p>Hemlock and some cedar are mainly on the edges. The bottom of the ridges hold some water. OPIC - FMD: UPDATED TCR 1/12/99 - 031-90-01 Soils - Wallace sand, 15-35% slopes YOE 2008: Cut to regenerate paper birch, but this is progressing slowly. More upland brush (pin cherry) than birch regen at this time.</p>
14	4119 - Mixed Northern Hardwoods	Poletimber Well	6.4	106	81-110	<p>Beech falling out dead, short steep slope.</p> <p>OPIC - FMD: Soils - Wallace sand, 15-35% slopes Steep, rolling terrain - close to inoperable for most logging equipment due to the steep slopes.</p>
15	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	49.7	105	81-110	<p>All but the cedar is at it's max age and will only start to fall out of the stand. Harvest now with adjacent stands. Even in areas high BA to cedar harvesting through should be good. There are areas where BA is low.</p> <p>A small amount of acreage is found in the HCVA - Fox River Plan. Soils - Carbondale, Lupton and Tawas - mucks and peat Natural disturbance is creating a mosaic of age classes in this stand, but cedar will probably dominate over time. Hold this until the adjacent stands (#11 and #18) are cut and regenerated.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	4134 - Aspen, Spruce/Fir	Sapling Well	20.8	18	Immature	Good regeneration OPIC - FMD: UPDATED TCR 1/12/99 - 031-90-01 Soils - Kalkaska sand, 6-15% slopes and Wallace sand, 15-35% slopes on the ridges; the swales are probably either Paquin/Finch sands or Deford muck. YOE 2008: This is a ridge-swale complex that has been cut to regenerate aspen. Pockets of residual red maple & large hemlock are scattered throughout, with highly variable stocking. Much of the area has regenerated to aspen and/or lowland conifer regeneration, but some openings still exist on both the uplands and the lowlands.
17	4112 - Maple, Beech, Cherry Association	Poletimber Well	20.2	105	81-110	BA plots 110 (hemlock clumps) to 60. Many broken trees (wind damage?).  OPIC - FMD: UPDATED TCR 1/12/99 - 031-90-01 Soils - Kalkaska sand, 0-15% slopes
18	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	61.0	105	81-110	Soils - Carbondale, Lupton and Tawas - mucks and peat Natural disturbance is creating a mosaic of age classes in this stand, but cedar will probably dominate over time. Harvest now and regenerate naturally - a mix of any commercial timber species will be considered acceptable regeneration. This harvest is a clearcut with reserves. Retention guidelines - Do not cut any hemlock, and retain enough cedar and submerchantable conifers to provide approximately 8-10% cover for the stand area. This includes advanced regeneration found in the the Q3 understory, which should be protected whenever possible. Note: Sale specs must include a provision requiring the purchaser to notify the Seney Snowmobile Association when the sale is purchased to coordinate harvesting operations along the snowmobile trail. Rh (8/22/14) Sale sold to zellar ex under contract number 41-023-08-01 osr conifers Unit returned uncut land owner denied access.
19	4134 - Aspen, Spruce/Fir	Poletimber Well	30.5	33	1-50	A4/A5 some areas are becoming merchantable. Cut in '83. There is a good pocket of conifer in the northern part of the stand.  OPIC - FMD: Soils - McMillan-Greylock fine sandy loams at 1-15% slopes Young aspen stand with balsam fir plus scattered spruce, ash, red maple, elm etc. The understory varies from 2-4" DBH. This stand will probably become a fully-stocked A6 by next entry. Ground cover species include ferns and a variety of herbaceous plants.
20	4115 - Y. Birch, Hemlock NH	Poletimber Well	9.2	106	81-110	Stand was left out of the surrounding cuts because of hill side or buffering the D type.
21	6122 - Black Spruce	Poletimber Medium	13.4	66	51-80	Harvest stand at the same time as the adjacent aspen stand.  OPIC - FMD: Soils - Transition zone from the poorly-drained Dawson-Greenwood-Loxley mucks/peats to the upland McMillan-Greylock fine sandy loam at 6-15% slope Fringe of slow-growing black spruce on the edge of a bog. The age given is based on several sample trees, but this stand actually displays unevenaged characteristics.
23	4112 - Maple, Beech, Cherry Association	Poletimber Well	17.3	105	51-80	Harvest with adjacent stand. OPIC - FMD: Soils - upland McMillan-Greylock or McMillan fine sandy loams at 0-15% slopes Hardwood mix on variable terrain. A few white ash are also present. The mixed softwood includes black spruce, white pine and hemlock.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	4130 - Aspen	Sapling Well	20.5	20	Immature	Rolling terrain, conifer in pockets. Should be red pine.  OPIC - FMD: UPDATED TCR 1/12/99 - 031-90-01 Soils - McMillan-Greylock fine sandy loams at 6-15% slopes YOE 2008: Young aspen with scattered residual conifers from the last stand, and occasional pockets of conifer regeneration. A few small patches of pin cherry etc. are also present, but provide valuable soft mast for wildlife.
25	4112 - Maple, Beech, Cherry Association	Poletimber Well	20.6	105	81-110	Ash has some old browse. Remove all aspen when cut. Beech and YB are dead. Thinned in '98 and 2001. Prescribe cut in 2028
28	4130 - Aspen	Poletimber Well	7.7	33	1-50	Harvest with hardwoods when treating.  OPIC - FMD: Soils - McMillan-Greylock fine sandy loams at 1- 15% slopes
29	4110 - Sugar Maple Association	Poletimber Well	17.4	106	81-110	There is more browse and less BA on the south side of the trail road that divides it. Most of the old regen gaps are full of cherry and ash. OPIC - FMD: Soils - McMillan-Greylock fine sandy loams at 1-15% slopes Select cut under TS #23-00 TCR dtd 12-8-02. Mixed hardwood includes red maple & basswood.
30	4130 - Aspen	Sapling Well	1.7	33	1-50	OPIC - FMD: Soils - Transition from Kalkaska sand at 0-6% slope to McMillan-Greylock fine sandy loams at 6-15% slopes
31	4130 - Aspen	Sapling Well	5.6	13	Immature	Think stand of regeneration. The low portion of the stand is too the south and is where the conifers are mainly found.  OPIC - FMD: Soils - Transition from McMillan-Greylock fine sandy loams at 6-15% slopes to the poorly-drained Carbondale-Lupton- Tawas mucks/peats
32	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Poor	41.2	3	1-50	Stand is very wet and holding water in pockets but regeneration is coming along well. Some of the regen is up at 3', some is still under but healthy. Stand should fully regenerate.  OPIC - FMD: HCVA - Fox River (due to possible drainages into the Fox River.) Soils - Carbondale, Lupton and Tawas - mucks and peat Ready to harvest and regenerate naturally - all commercial tree species are acceptable regeneration. During timber sale prep, watch out for unmapped drainages through this stand that may require buffering in accordance with the Fox River Plan.  This harvest is a clearcut with reserves. Retention guidelines: Retain all hemlock and leave-tree mark some defective or low quality yellow birch (14" plus DBH) for wildlife; also emphasize protecting the advanced regeneration in the Q3 understory whenever possible.  Include the adjacent S6 stand in Cmp 003 (#047) which was approved for harvest with this timber stand at YOE 2008 review on 12-18-06.  Note: Sale specs must include a provision requiring the purchaser to notify the Seney Snowmobile Association when the sale is purchased to coordinate harvesting operations along the snowmobile trail. Sale cut by Zeller Ex in 2012 check next inventory cycle for regen.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
34	6112 - Lowland Aspen	Sapling Well	25.6	14	Immature	<p>Good regeneration and diversity in the stand. There are some open areas with marsh grasses, raspberry. Along stand 19 there are some small seeps that drain into the stand.</p> <p>OPIC - FMD: Soils - Carbondale, Lupton and Tawas - mucks and peat</p> <p>Harvest was completed in 2003. Much of the area is fully stocked with mixed aspen and/or hardwood regen, but enough areas have only lowland brush to drop the overall stocking down to P2. In these unstocked areas, it appears that conifer regeneration is slowly progressing, and over the next ten years or so the entire stand will be fully stocked with acceptable regeneration.</p>
35	4134 - Aspen, Spruce/Fir	Sapling Well	51.2	14	1-50	<p>A4/A5 some areas are becoming merchantable. OPIC - FMD: Soils - McMillan-Greylock fine sandy loams at 1-15% slopes</p> <p>Young aspen stand with balsam fir plus scattered spruce, ash, red maple, elm etc. The understory varies from 2-4" DBH. This stand will probably become a fully-stocked A6 by next entry. Ground cover species include ferns and a variety of herbaceous plants.</p>
36	4130 - Aspen	Sapling Poor	7.1	4	Immature	<p>Good regeneration.</p> <p>OPIC - FMD: Soils - McMillan-Greylock fine sandy loams at 1-6% slopes</p> <p>Originally included as part of the surrounding hardwood stand, this aspen is now ready to harvest - evidence of breakup is present. The stand's year of origin as shown is an approximation based on several trees, but there is some age variation present. Mixed pulpwood includes a variety of hardwoods plus spruce and balsam fir.</p> <p>This harvest is a clearcut with reserves. To meet stand retention guidelines: 1) Do not cut any conifers less than 6" DBH, and protect any pine, balsam fir or spruce regeneration. 2) Retain some mature aspen by leaving them outside the cutting boundary line or using them as boundary trees.</p> <p>Follow the harvest with TSI of residual poor quality hardwoods &amp; aspen to assure proper aspen regeneration, but DO NOT cut serviceberry or residual conifers. A mix of aspen, hardwoods and conifers will be considered acceptable regeneration.</p> <p>Note: Sale specs must include a provision requiring the purchaser to notify the Seney Snowmobile Association when the sale is purchased to coordinate harvesting operations along the snowmobile trail.</p> <p>[8/13/08] Now under contract TS 41-003-07-01 Octo-Pine. See also FTP W41-1365 (aspen TSI.)</p>
37	4130 - Aspen	Poletimber Well	11.0	55	81-110	Picked through in '83, starting to fall apart. Final harvest.
38	4199 - Other Mixed Upland Deciduous	Poletimber Well	8.5	106	51-80	<p>Final harvest - poor quality.</p> <p>OPIC - FMD: Soils - McMillan-Greylock fine sandy loams at 1-6% slopes</p>
40	6120 - Lowland Cedar	Poletimber Well	11.7	106	81-110	<p>Old skid road running between the cut and cedar type. Same stand as adjacent compartment. They should be treated at the same time. Black spruce looks healthy, if harvested would need to cut some of the cedar. Small creek comes out at the road through the stand.</p> <p>OPIC - FMD: Soils - Carbondale, Lupton and Tawas - mucks and peat</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42	6139 - Mixed Lowland Forest	Poletimber Well	22.3	106	81-110	<p>Would need a solid winter to harvest. Wandered on bear ground and did not find any creeks, but a lot of wet areas and there is a creek on the other side of the county road that may go into the stand at some point. All species but cedar are over mature and falling out of the stand. Would need to harvest this entry to get good regeneration of these species back. There are areas of lower BA mixed through the stand. In some of the gaps there is cedar regen,</p> <p>OPIC - FMD: Soils - Carbondale, Lupton and Tawas - mucks and peat</p> <p>Very wet site - Unevenaged characteristics are now prevalent as the paper birch and balsam fir are rapidly dropping out. Mixed softwood pulp includes cedar and black spruce.</p>
43	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	10.1	102	51-80	<p>Tamarack has insect damage. All species except for cedar are over mature and need to be harvested. The North chunk is a knob of high ground with bracken fern. OPIC - FMD: Soils - Carbondale, Lupton and Tawas - mucks and peat Mixed stand but cedar is beginning to express dominance. The understory varies considerably from hardwoods to pure cedar.</p>
44	6122 - Black Spruce	Poletimber Well	6.3	55	81-110	<p>Fir and cedar in understory are dead from being shaded out. BS needs 10-20 more years to get some dbh on them before harvesting. A good winter would allow for harvesting. Cedar was picked through in the 60's. There is an fairly new red line for this stand.</p> <p>OPIC - FMD: Soils - Carbondale, Lupton and Tawas - mucks and peat</p> <p>Cedar over a dense understory of balsam fir-cedar-black spruce. Mixed pulpwood includes spruce and paper birch.</p>
46	6139 - Mixed Lowland Forest	Sapling Well	3.1	14	Immature	<p>Good regeneration</p> <p>OPIC - FMD: Soils - poorly drained/frequently flooded Ausable-Deford-Tawas mucks</p> <p>Mix of conifer regeneration with a few patches of A3 includes.</p>
48	6112 - Lowland Aspen	Sapling Well	6.5	33	Immature	<p>SCA - deer yard in very southern corner. Stand was harvest for cedar posts and other conifer in 69 and 83. Small dbh due to high water table and low SI.</p> <p>OPIC - FMD: Soils - Transition from poorly drained/frequently flooded Ausable-Deford-Tawas mucks up to McMillan-Greylock fine sandy loams at 1-15% slopes</p> <p>Understory includes A3, lowland brush and Q3.</p>
49	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	89.7	110	81-110	<p>Not old growth timber. Red maple and other deciduous species are either very old or in the understory where there is blow down. Majority of the stand is in HCVA - Fox River</p> <p>Soils - poorly drained/frequently flooded Ausable-Deford-Tawas mucks</p> <p>Soft, wet ground along the Fox River - many areas are inoperable, or would present tremendous BMP issues to reach. The site indices vary predictably with changes in terrain and elevation. Some areas within the stand are dominated by conifers.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
50	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	104.2	106	81-110	<p>Lower BA than stand 49 across the Fox River. Low ground, wet with poor SI</p> <p>Much of the stand falls within the HCVA - Fox River Plan Soils - poorly drained/frequently flooded Ausable-Deford-Tawas mucks, Markey mucky peat, and also Spot-Finch sands as it transitions toward the uplands</p> <p>Soft, wet ground along the Fox River - many areas are inoperable, or would present tremendous BMP issues to reach.</p> <p>The site indices vary predictably with changes in terrain and elevation. Some areas within the stand are dominated by conifers.</p>
53	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	10.1	106	81-110	<p>Some acreage of the stand falls within the SCA - deer yard and the Fox River HCVA</p> <p>Soils - poorly drained/frequently flooded Ausable-Deford-Tawas mucks</p> <p>Inaccessible stand along the Fox River featuring a mix of species, but cedar will probably become even more dominant over time.</p> <p>Mixed sawlogs include very large (20" + DBH) white pine &amp; scattered yellow birch; mixed softwood pulp represents balsam fir, black spruce and hemlock.</p>
54	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Well	16.9	9	Immature	<p>Stand is regenerating well, still filling in especially with conifer being smaller than the hardwood spp. A little bit of blow down from the residual trees left from cut.</p> <p>Cut under TS 41-033-08-01</p> <p>OPIC - FMD: Soils - Carbondale, Lupton and Tawas - mucks and peat</p> <p>Mixed sawlogs include very large (20" + DBH) white pine &amp; scattered yellow birch; mixed softwood pulp represents balsam fir, black spruce and hemlock.</p> <p>Ready to harvest and regenerate naturally - all commercial tree species are acceptable regeneration.</p> <p>This harvest is a clearcut with reserves.</p> <p>To meet retention guidelines, do not cut hemlock or white pine and leave-tree mark some defective or low quality yellow birch (14" plus DBH) for wildlife. Protect the advanced regeneration in the Q3 understory whenever possible.</p> <p>[8-26-09] sale completed TCR dtd 8-26-09. Regen will be checked during next inventory cycle for YOE 2018.</p>
56	6113 - Lowland Maple	Sapling Well	0.5	22	1-50	cut with Stand to the south in C005.
57	4311 - Pine, Aspen Mix	Poletimber Well	10.9	86	51-80	<p>OPIC - FMD: Soils - Wallace sand 15-35% slopes and Spot-Finch sands on the transition to the adjacent lowlands</p> <p>Last cut in 1994, 58-94-02; resulting in a mixed understory heavy to aspen but also including patches of hardwoods and mixed upland conifers. The red pine is found primarily in clumps, while the more open areas feature the young aspen. Mixed softwood volume includes white and jack pine, balsam fir and spruce.</p>
59	4130 - Aspen	Sapling Well	5.6	32	Immature	<p>Looks good. N side of stand falls into low ground.</p> <p>OPIC - FMD: Soils - Wallace sand 15-35% slopes and Spot-Finch sands on the transition to the adjacent lowlands</p> <p>Young aspen with numerous clumps of residuals.</p>

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Shingleton Mgt. Unit

Report 7 – Forested Stands

Compartment: 2  
Year of Entry: 2018



S t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
61	4119 - Mixed Northern Hardwoods	Poletimber Well	37.3	103	81-110	Higher topography than surrounding area., small ridges. Grass openings that were typed out in the past are now incorporated into the hardwood stand. Access is difficult due to the wet ground and drains in the adjacent stands. Also, some of the stand acres fall within the Fox River cooridor. OPIC - FMD: Soils - Kalkaska sands at 6-35% slopes plus Spot-Finch sands on the transitional edges to the adjacent lowlands



Stand	Cover Type	Acres	Managed Site	General Comments:
8	6224 - Treed Bog	26.2	No	Treed bog with a few merchantable sized trees. SI too low for management. Soils - Carbondale, Lupton and Tawas - mucks and peat
10	6229 - Mixed lowland shrub	34.7	No	Low type around Dead Creek.  HCVA - Fox River Plan Lowland brush and marsh surrounding Dead Creek Soils - Carbondale, Lupton and Tawas - mucks and peat
26	6224 - Treed Bog	73.9	No	OPIC - FMD: Soils - poorly-drained Dawson-Greenwood-Loxley mucks/peats Submerchantable black spruce & tamarack bog up to 20' tall and 2" DBH. Inoperable ground.
27	500 - Water	1.4	No	OPIC - FMD: HARCOURT LAKE
41	122 - Road/Parking Lot	6.7	No	OPIC - FMD: Old Seney Road R.O.W. - also a snowmobile trail.
52	500 - Water	16.1	No	OPIC - FMD: HCVA - Fox River
58	622 - Lowland Shrub	6.5	No	HCVA - Fox River Soils - poorly drained/frequently flooded Ausable-Deford-Tawas mucks and Markey mucky peat
60	6223 - Inundated Shrub Swamp	20.8	No	HCVA - Fox River Plan, stand contains a tributary to the Fox River Soils - Markey mucky peat Marsh with scattered trees
401	3102 - Grass	1.2	No	OPIC - FMD: Soils - Kalkaska sand at 0-6% slopes