



# Compartment Review Presentation

## Shingleton Forest Management Unit

Compartment 41026

Entry Year 2017

Acreage: 2,509

County Schoolcraft

Management Area: Seney Manistique Swamp

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

**Stand Examiner:** Sheila Clark

### Legal Description:

T44N R16W Sections 8, 9 & 16-18

### Identified Planning Goals:

The goals in this compartment include conducting multiple resource management for current and future generations. Forest Health, Recreation, Biodiversity Stewardship, Wildlife and Timber Management are some of the key management components within this compartment.

### 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 moderately drained sandy soils on the uplands and poorly drained organic soils on the low ground. The terrain in the area is flat to rolling. The compartment lies within 4 different Land Type Association's (LTA's). The eastern portion of the compartment which is designated as potential old growth (POG) is the Hickey Creek Peatlands LTA. The center of the compartment is the Stutts Creek Sands LTA. Finally the western portion of the compartment is split between the Mintfarm LTA and the Shingleton Fen LTA.

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

Ownership within the compartment is mostly contiguous blocks of State land, however there is some private fragmentation, including corporate land. The private land is either forest or marsh and it is currently used mainly for hunting. There are camps on most of the private parcels. The Hiawatha National Forest lies directly west of the compartment.

### Unique Natural Features:

The patterned fen is located in Section 8. Within that area is the sweet coltsfoot. There will be no harvesting in this area.

### Archeological, Historical, and Cultural Features:

None known.

### Special Management Designations or Considerations:

The lands east of Hay Meadow Creek in Sections 8, 9 and 16 are part of the patterned fens, so no activity will be occurring those stands.

### Watershed and Fisheries Considerations:

This compartment contains sections of Stutts Creek, Hay Meadow Creek, and Grindstone Creek. All streams in this area are considered to be warm-water. BMP's should be followed as inputs of sediment and increases in sand bedload need to be prevented.

### Wildlife Habitat Considerations:

This compartment is located in central Schoolcraft County. Both the Hay Meadow and Stutts Creeks pass through this compartment on northwest to southeast courses. General Land Office notes show that subtle changes in elevation provided for different vegetative land cover. The lowest areas were dominated by open marsh, transition sites held spruce, tamarack, elm, black ash, and cedar. Upland areas held white pine, white birch, red maple, red pine, aspen, hemlock, yellow birch. Current forests appear to have similar species composition compared to pre-settlement times. However, jack pine and aspen are somewhat more abundant than in the 1850s. Featured species in this compartment are beaver, moose, ruffed grouse, sharp-tailed grouse, snowshoe hare, and white-tailed deer. The wildlife habitat objectives in this compartment include protection of the marsh complex, providing age class and species diversity with both the conifer and deciduous forests, and maintaining an aspen component with the compartment.

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

Surface sediments consist of lacustrine (lake) sand and gravel and peat and muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Collingwood Shale and Trenton Group subcrop below the glacial drift. The Trenton is quarried for stone elsewhere in the UP. Gravel pits are not located in the area and potential appears to be limited. There is no commercial oil and gas production in the UP.

**Vehicle Access:**

There are 2 Department Roads within the compartment, the Haymeadow Creek Road accesses the center of the compartment and the South Stutts Truck Trail accesses the west side of the compartment. There is no vehicle access on the east side of the compartment or the land between the North and South Branches of Stutts Creek. There are several private gates within the compartment which are severing access to parcels of State land.

**Survey Needs:**

There are questions in T44N R16W Sections 16 & 17 of where the property line should be.

**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 areas of the compartment.

**Fire Protection:**

Response times to fires within the compartment will be relatively slow due to its location. Fire operations will be challenging in some areas due to the lack of roads and the number of creeks present as well as the organic soils in these areas. The compartment is comprised mainly of jack pine in varying age classes which could potentially lead to some larger fires due response times, location and this volatile fuel type given the proper weather conditions.

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

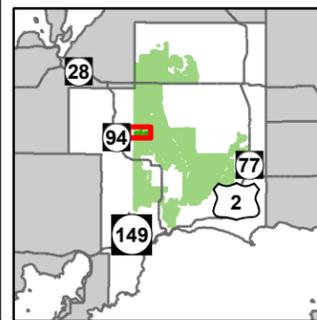
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

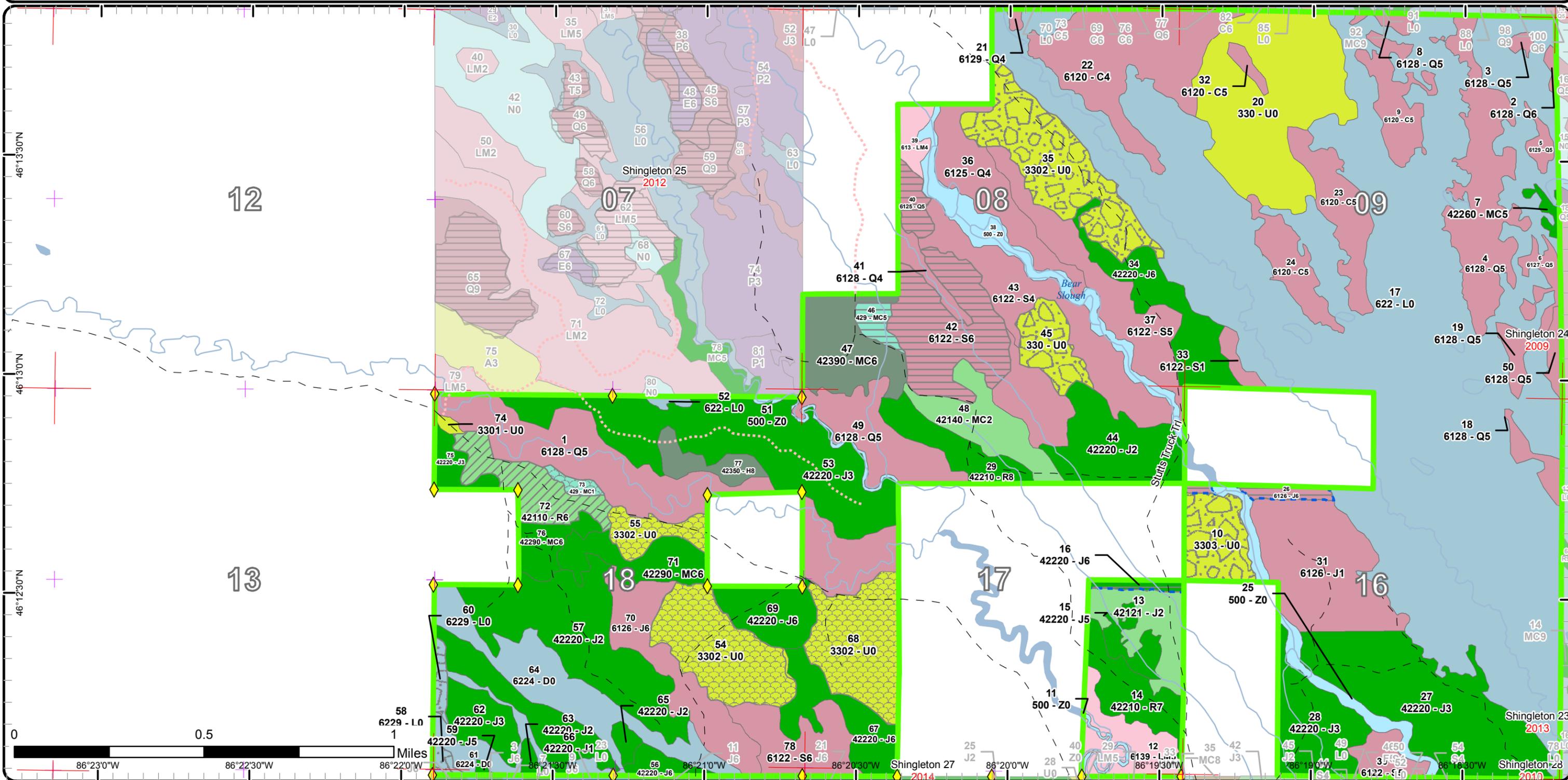
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments

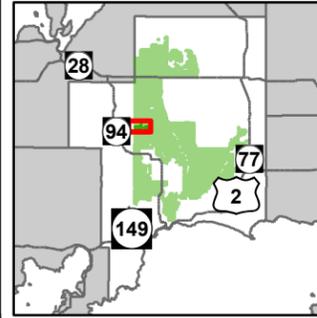
Compartment: 26  
 T44N, R16W, Sec: 8, 9, 16-18  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: Seney Manistique Swamp  
 YOE: 2017  
 Acres: 2509 GIS Calculated  
 Examiner: Sheila Clark  
 Map Revised: 8/25/2015  
 Map Phase: Review



- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- Miris Corners
- - - Poor Dirt Roads
- ⋯ Closed Roads
- Rivers
- ▭ Lakes
- ▭ Treatments with Site Conditions
- ▭ Site Prep
- ▭ Clearcut (w/Reserves)
- ▭ Regeneration Survey
- ▨ Thinning (Crown, Low, Systematic)
- Forest Covertype
- ▭ 421 - Planted Pines
- ▭ 422 - Natural Pines
- ▭ 423 - Other Upland Conifers
- ▭ 429 - Mixed Upland Conifers
- ▭ 612 - Lowland Coniferous Forest
- ▭ 613 - Lowland Mixed Forest
- Non-Forest Covertype
- ▭ 330 - Low Density Trees
- ▭ 500 - Water
- ▭ 622 - Lowland Shrub

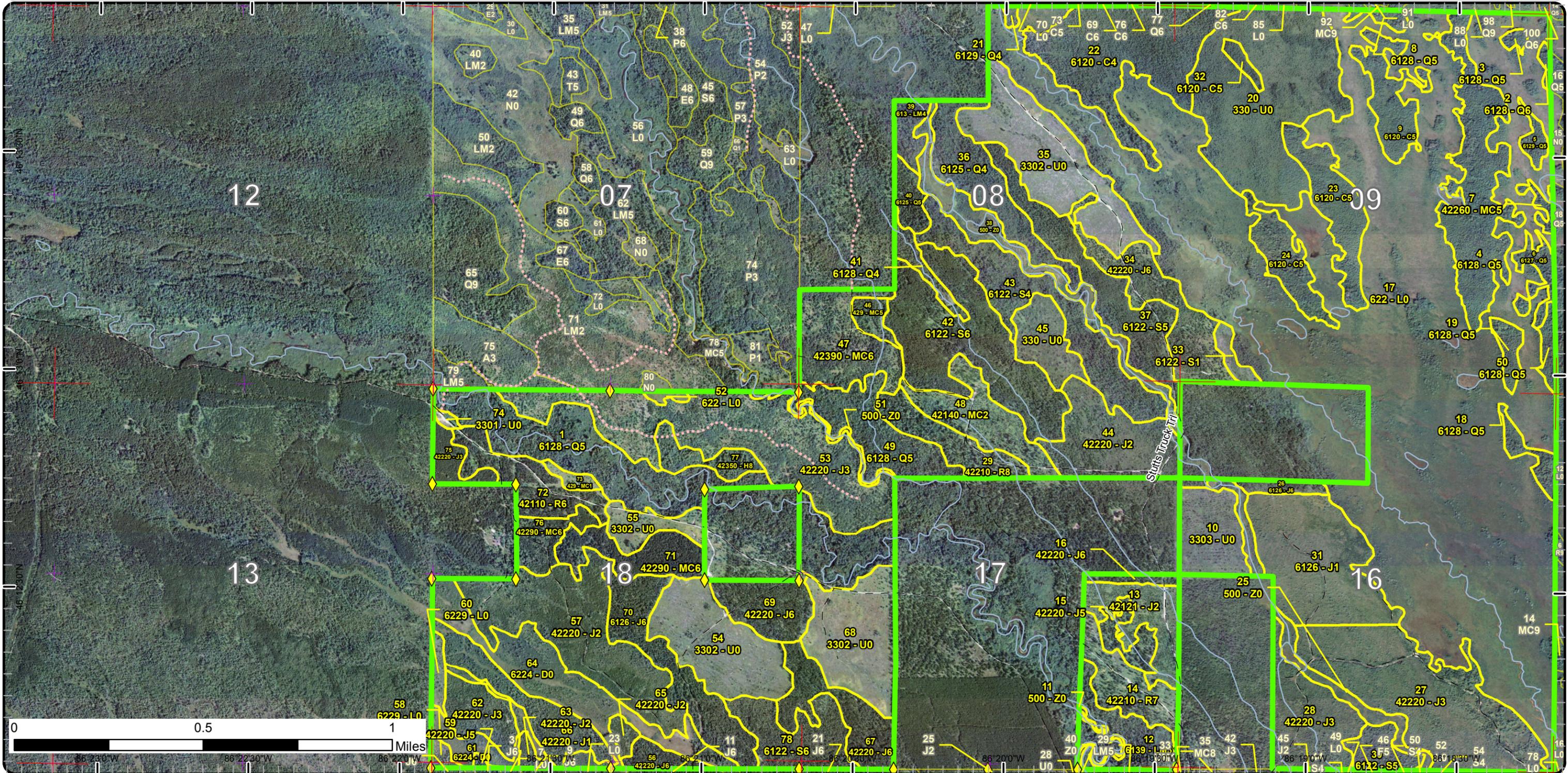


# Stand Boundary Map



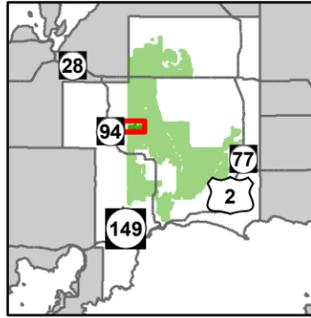
Compartment: 26  
 T44N, R16W, Sec: 8, 9, 16-18  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: Seney Manistique Swamp  
 YOE: 2017  
 Acres: 2509 GIS Calculated  
 Examiner: Sheila Clark  
 Map Revised: 8/25/2015  
 Map Phase: Review

- ✚ Remonumented Section Corners
  - ◆ Survey Grade GPS Corners
  - Miris Corners
  - - Poor Dirt Roads
  - ⋯ Closed Roads
  - Rivers
  - ▭ Stand Boundaries
- Forest Covertypes  
 421 - Planted Pines  
 422 - Natural Pines  
 423 - Other Upland Conifers  
 429 - Mixed Upland Conifers
- Non-Forest Covertypes  
 330 - Low Density Trees  
 500 - Water  
 622 - Lowland Shrub
- 612 - Lowland Coniferous Forest  
 613 - Lowland Mixed Forest



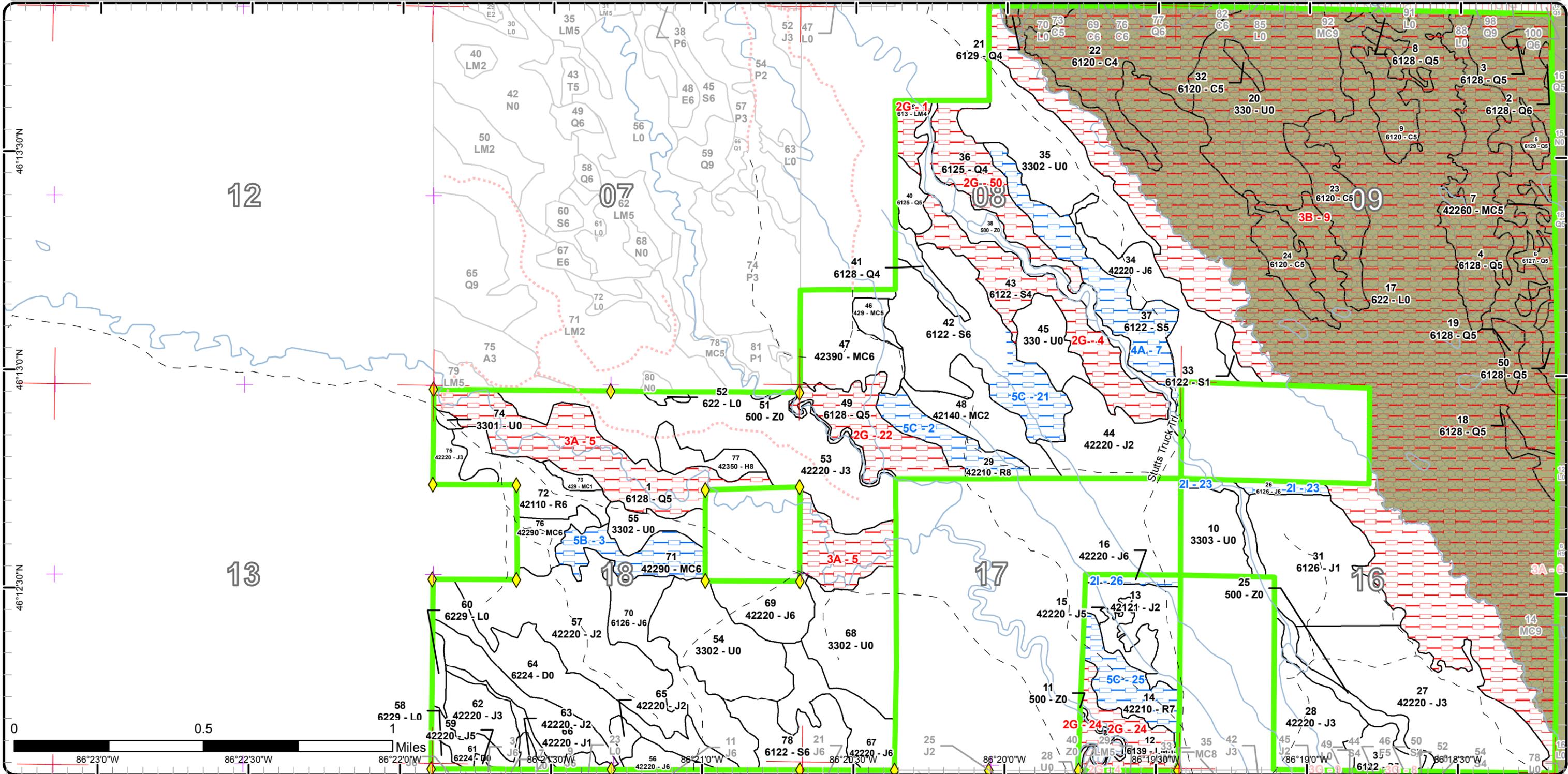
# Special Conservation Areas & Site Conditions Map

Compartment: 26  
 T44N, R16W, Sec: 8, 9, 16-18  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: Seney Manistique Swamp  
 YOE: 2017  
 Acres: 2509 GIS Calculated  
 Examiner: Sheila Clark  
 Map Revised: 8/25/2015  
 Map Phase: Review



- ✦ Remonumented Section Corners Available Factors W/ Constraints
- ◆ Survey Grade GPS Corners
- Miris Corners
- - - Poor Dirt Roads
- ⋯ Closed Roads
- Rivers
- ▭ Stand Boundaries
- Recommendation**
- ▨ SCA Removal
- Site Condition
- Available w/ Constraints
- Unavailable
- 21: Survey needed
- 4A: No Markets Available for these Forest Products
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors
- 2G: Too wet (sensitive soils, does not include access issues)

- 3A: Potential old growth / biodiversity
- 3B: Threatened, endangered, and special concern species/communities
- Special Conservation Areas
- Cold Water Streams
- ▨ Potential Old Growth
- ▨ Other SCA (No Category Assigned)



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
Cedar	0	0	0	0	0	0	0	0	0	0	20	67	47	0	0	0	0	0	134
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	12
Jack Pine	0	23	228	247	1	11	94	0	0	6	0	0	0	0	0	0	0	0	610
Low-Density Trees	298	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	298
Lowland Conifers	0	0	0	0	0	0	0	0	15	33	93	32	0	0	0	0	0	87	260
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	24	8	0	0	0	0	0	0	32
Lowland Shrub	668	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	668
Lowland Spruce/Fir	0	0	5	0	0	0	28	11	112	0	0	47	0	0	0	0	0	0	203
Natural Mixed Pines	0	0	0	0	0	0	23	0	13	0	3	0	0	0	0	0	0	0	39
Planted Mixed Pines	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Red Pine	0	0	0	0	0	0	25	0	23	0	0	0	20	0	0	0	0	0	68
Treed Bog	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63
Upland Conifers	0	3	0	35	0	0	0	0	0	6	0	0	0	0	0	0	0	0	44
Water	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
<b>Total</b>	<b>1079</b>	<b>26</b>	<b>261</b>	<b>282</b>	<b>1</b>	<b>11</b>	<b>170</b>	<b>11</b>	<b>163</b>	<b>45</b>	<b>140</b>	<b>154</b>	<b>79</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>87</b>	<b>2509</b>



## Report 2 – Treatment Summary

Shingleton Mgt. Unit  
Year of Entry: 2017

Acres of Harvest

Compartment 26  
Total Compartment Acres: 2,509

Commercial Harvest - 92  
Harvests with Site Condition - 10  
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
Jack Pine	10	0	0	0	0	0	0	0	0	10
Lowland Conifers	8	0	0	0	0	0	0	0	0	8
Lowland Spruce/Fir	53	0	0	0	0	0	0	0	0	53
Red Pine	0	0	0	0	25	0	0	0	0	25
Upland Conifers	6	0	0	0	0	0	0	0	0	6
<b>Total</b>	<b>77</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>102</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	102	105	0	0	0	106	0	0	0	314
Next Step	0	57	162	0	49	182	0	0	0	451
<b>Total</b>	<b>102</b>	<b>162</b>	<b>162</b>	<b>0</b>	<b>49</b>	<b>288</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>764</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
10	41026010- Monitor	24.1	3303 - Mixed Low Density Trees	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Intermediate)	4135 - Aspen, Cedar	Even-Aged	Proposal

**Habitat Cut: Yes****Site Condition:**Prescription Reevaluate regeneration in 2017.Specs:Next StepTreatments:Acceptable Any current species or ones that were present prior to harvest.Regen:Other Old next step comments:Comment:Proposed Start Date: 10/1 /2016

16	41026016-Cut	4.1	42220 - Natural Jack Pine	Poletimber Well	47	111- 140	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	Proposal
----	--------------	-----	------------------------------	--------------------	----	-------------	---------	----------	-----------------------------	-----------	----------

**Habitat Cut: No****Site Condition: Survey Needed**Prescription Harvest all trees, no retention due to the size of the stand. Will need survey work first. Protect drainage going through stand.Specs:Next StepTreatments:Acceptable Any current species is acceptable.Regen:Other Old next step comments:Comment:Proposed Start Date: 10/1 /2016

26	41026026-Cut	6.0	6126 - Lowland Jack Pine	Poletimber Well	83	51-80	Harvest	Clearcut	6125 - Lowland Black Spruce, Jack Pine	Even-Aged	Proposal
----	--------------	-----	-----------------------------	--------------------	----	-------	---------	----------	--	-----------	----------

**Habitat Cut: No****Site Condition: Survey Needed**Prescription 2005 - Jack pine will not hold any longer, needs to be cut now. There is a lot of sub-merchantable spruce. No buffer along Bear slough just protect it from slash and don't cross if land owner gives access. Stand to low to do any scarification, adjacent stands seem to regenerate well on their own. Site may convert to spruce which is ok as long as jack pine remains a component. Stand 10 to the east is not 5' tall yet but the green up requirement should be met by the time the stand is prepped/cut. Do not cut oak and hemlock. Soils are Deford Muck.Specs:

2015 - This is low ground jack pine. Corner work is need to determine if we own this. If harvested cut all trees with no retention due to size.

Next StepTreatments:Acceptable Any current species is acceptable.Regen:Other Old next step comments:Comment:Proposed Start Date: 10/1 /2016

35	41026035- Monitor	57.2	3302 - Low Density Conifer Trees	Nonstocked		Unspec ified	Monitoring	Natural Regen (Intermediate)	429 - Mixed Upland Conifers	Even-Aged	Draft Field Boundary
----	----------------------	------	-------------------------------------	------------	--	-----------------	------------	---------------------------------	--------------------------------	-----------	-------------------------

**Habitat Cut: Yes****Site Condition:**Prescription Monitor scarification results.Specs:Next Step SitePrep, Trenching; Planting, Initial PlantTreatments:Acceptable Any previous species is acceptable regeneration. Jack pine, spruce and red maple.Regen:Other Old next step comments:Comment:Proposed Start Date: 10/1 /2016



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
40	41026040-Cut	8.2	6125 - Lowland Black Spruce, Jack Pine	Poletimber Medium	72	81-110	Harvest	Clearcut	612 - Lowland Coniferous Forest	Even-Aged	Proposal

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

Prescription Clearcut stand with no retention due to small size. Leave a few scattered large trees for wildlife purposes. Harvest with stand 42 to the south.

Specs: Will have to freeze to get to. Will need survey work.

Next Step

Treatments:

Acceptable Any current species is acceptable.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

42	41026042-Cut	52.5	6122 - Black Spruce	Poletimber Well	79	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Proposal
----	--------------	------	---------------------	--------------------	----	--------	---------	----------------------------	---------------------------------------	-----------	----------

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

Prescription Clear-cut stand with retention being left in pockets. Leave retention along drainage. The southeastern 20 acres of the stand will be left for the

Specs: next rotation and harvested with red pine in the south.

Next Step

Treatments:

Acceptable Any current species is acceptable.

Regen:

Other Harvest with stand 40 in the north.

Comment:

WLD comment - This harvest will regenerate highly stocked black spruce with low lying branches, creating excellent cover for snowshoe hare.  
Old next step comments:

Proposed Start Date: 10/1 /2016

45	41026045- Monitor	17.9	330 - Low-Density Trees	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Intermediate)	4222 - Natural Jack Pine	Even-Aged	Proposal
----	----------------------	------	----------------------------	------------	---	-----------------	------------	---------------------------------	-----------------------------	-----------	----------

**Habitat Cut: Yes****Site Condition:**

Prescription Monitor regeneration.

Specs:

Next Step

Treatments:

Acceptable Spruce or Jack pine are acceptable regeneration.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

46	41026046-Cut	6.0	429 - Mixed Upland Conifers	Poletimber Medium	83	Unspec ified	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	Proposal
----	--------------	-----	--------------------------------	----------------------	----	-----------------	---------	----------------------------	--------------------------------	-----------	----------

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

Prescription Clear cut stand leaving large white pine, not to exceed 20 ba.

Specs: Leave a component of the stand along the border of 42.

Do not cut cedar.

Next Step

Treatments:

Acceptable Any current species is acceptable.

Regen:

Other WLD comment - This harvest will serve to regenerate a densely stocked spruce/fir mix, with low lying branches, which is a preferred habitat of snowshoe hare. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



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
54	41026054- Prep	44.7	3302 - Low Density Conifer Trees	Nonstocked		Unspec ified	SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
<b>Habitat Cut: Yes</b>		<b>Site Condition:</b>									
<u>Prescription</u> trench upland only.											
<u>Specs:</u>											
<u>Next Step</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr)											
<u>Treatments:</u>											
<u>Acceptable</u> jack pine, red pine, white pine, black spruce											
<u>Regen:</u>											
<u>Other</u> Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 2 /25/2015											
55	41026055- Prep	12.9	3302 - Low Density Conifer Trees	Nonstocked	0	Unspec ified	SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
<b>Habitat Cut: Yes</b>		<b>Site Condition:</b>									
<u>Prescription</u> trench and plant jack pine											
<u>Specs:</u>											
<u>Next Step</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr)											
<u>Treatments:</u>											
<u>Acceptable</u> jack pine, red pine, white pine, black spruce											
<u>Regen:</u>											
<u>Other</u> Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 2 /25/2015											
58	41026058- Monitor	2.8	6229 - Mixed lowland shrub	Nonstocked		Unspec ified	Monitoring	Natural Regen (Intermediate)	6129 - Mixed Coniferous Lowland Forest	Even-Aged	Proposal
<b>Habitat Cut: Yes</b>		<b>Site Condition:</b>									
<u>Prescription</u> Ground is very low - too soon for natural regeneration.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Any current species is acceptable.											
<u>Regen:</u>											
<u>Other</u> WLD comment - This monitoring will ensure regeneration of a highly stocked black spruce stand with low lying branches, creating excellent cover											
<u>Comment:</u> for snowshoe hare. Regenerating hardwood browse will bolster food availability within the stand. Old next step comments:											
<u>Proposed Start Date:</u> 10/1 /2016											
60	41026060- Monitor	4.4	6229 - Mixed lowland shrub	Nonstocked		Unspec ified	Monitoring	Natural Regen (Intermediate)	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	Proposal
<b>Habitat Cut: Yes</b>		<b>Site Condition:</b>									
<u>Prescription</u> Stand is low ground, reevaluate after more time.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Any current species is acceptable.											
<u>Regen:</u>											
<u>Other</u> WLD comment - This monitoring will ensure adequate regeneration of young deciduous species, creating excellent food availability for snowshoe											
<u>Comment:</u> hare. Regenerating conifer will bolster escape cover within the stand. Old next step comments:											
<u>Proposed Start Date:</u> 10/1 /2016											



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
68	41026068- Prep	44.2	3302 - Low Density Conifer Trees	Nonstocked	0	Unspec ified	SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: Yes****Site Condition:**Prescription trench site.Specs:Next Step Planting, Initial Plant; Monitoring, Artificial Regen(1yr)Treatments:Acceptable jack pine, black spruce, red pine, white pineRegen:Other Old next step comments:Comment:Proposed Start Date: 2 /25/2015

72	41026072-Cut	25.3	42110 - Planted Red Pine	Poletimber Well	54	171- 200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
----	--------------	------	-----------------------------	--------------------	----	-------------	---------	----------------	----------------------------	-----------	----------

**Habitat Cut: No****Site Condition:**Prescription Thin stand to between 100 and 120 ba. Focus on removing suppressed trees and opening up the crowns of remaining trees.Specs:

Do not cut non-red pine trees unless needed for access.

Next StepTreatments:Acceptable Red PineRegen:Other WLD comment - This prescription will strive to balance red pine age classes within the MA and create a temporary opening, within a mosaic ofComment: opening/plantation habitat, which will benefit sharp-tailed grouse and other open-land dependent species. Old next step comments:Proposed Start Date: 10/1 /2016

73	41026073- Prep	3.3	429 - Mixed Upland Conifers	Sapling Poor	3	Immatu re	SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
----	-------------------	-----	--------------------------------	-----------------	---	--------------	----------	-----------	-----------------------------	-----------	-------------------------

**Habitat Cut: Yes****Site Condition:**Prescription trench and plant jack pineSpecs:Next Step Planting, Initial Plant; Monitoring, Artificial Regen(1yr)Treatments:Acceptable jack pine, red pine, black spruce, white pineRegen:Other Old next step comments:Comment:Proposed Start Date: 2 /25/2015

**Total Treatment  
Acreage Proposed: 313.6**

## Report 5 – Site Conditions

Shingleton Mgt. Unit  
Sheila Clark : Examiner

Compartment: 26  
Year of Entry: 2017

### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions							
Acres	Available	With Condition	Not Available	2I	4A	5B	5C	2G	3A	3B	
135	0	0	135	Cedar						135	
12	12	0	0	Hemlock							
611	600	10	0	Jack Pine	10						
298	203	0	95	Low-Density Trees				0		95	
260	16	0	244	Lowland Conifers				64	87	93	
32	0	0	32	Lowland Mixed Forest				32			
668	9	0	659	Lowland Shrub						659	
203	96	60	47	Lowland Spruce/Fir		40	20	47			
39	13	23	3	Natural Mixed Pines			23			3	
28	28	0	0	Planted Mixed Pines							
68	25	43	0	Red Pine			43				
63	63	0	0	Treed Bog							
44	44	0	0	Upland Conifers							
50	49	0	1	Water				1			
2,509	1,158	136	1,215	Total Forested Acres	10	40	23	63	144	87	984
	46%	5%	48%	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	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Harvest stand with southern part of stand 42 during next rotation.							

## Report 5 – Site Conditions

Shingleton Mgt. Unit  
Sheila Clark : Examiner

Compartment: 26  
Year of Entry: 2017

3	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Surrounding stands have not met regeneration guidelines.							
4	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	47	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Much of the stand is flooded by bear slough.							
5	<b>Unavailable</b>	<b>3A: Potential old growth / biodiversity</b>	87	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand is buffer along Stutts creek.							
6	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	40	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small, submerchantable trees.							
9	<b>Unavailable</b>	<b>3B: Threatened, endangered, and special concern species/communities</b>	984	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Part of patterned fen.							

## Report 5 – Site Conditions

Shingleton Mgt. Unit  
Sheila Clark : Examiner

Compartment: 26  
Year of Entry: 2017

21	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	20	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Plan to harvest next rotation with stand 29.							
22	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	33	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Very low ground and low volume.							
23	<b>Available</b>	<b>2I: Survey needed</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Not sure if we own this. If we do, harvest with stand 42.							
24	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stutts Creek flows through stand.							
25	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Was recently thinned. Waiting for logs to grow.							
26	<b>Available</b>	<b>2I: Survey needed</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Needs survey work to determine if we own. If we do, harvest with stands 26 and 42.							

## Report 5 – Site Conditions

Shingleton Mgt. Unit

Sheila Clark : Examiner

Compartment: 26

Year of Entry: 2017

50	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	33	Unspecified	Unspecified	Unspecified	Unspecified
----	-------------	---	----	-------------	-------------	-------------	-------------

Comments:



## 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>POG</b> <b>Comments</b> Does not meet criteria.	Potential Old Growth		<b>SCA Removal</b>	2
<b>POG</b> <b>Comments</b> Does not meet criteria.	Potential Old Growth		<b>SCA Removal</b>	2
<b>POG</b> <b>Comments</b> Does not meet criteria.	Potential Old Growth		<b>SCA Removal</b>	15
<b>POG</b> <b>Comments</b> Does not meet criteria.	Potential Old Growth		<b>SCA Removal</b>	20
<b>POG</b> <b>Comments</b> Does not meet criteria.	Potential Old Growth		<b>SCA Removal</b>	44
<b>POG</b> <b>Comments</b> Does not meet criteria.	Potential Old Growth		<b>SCA Removal</b>	87
<b>POG</b> <b>Comments</b> Does not meet criteria.	Potential Old Growth		<b>SCA Removal</b>	5
<b>POG</b> <b>Comments</b> Does not meet criteria.	Potential Old Growth		<b>SCA Removal</b>	11
<b>POG</b> <b>Comments</b> Does not meet criteria.	Potential Old Growth		<b>SCA Removal</b>	3
<b>POG</b> <b>Comments</b> Does not meet criteria.	Potential Old Growth		<b>SCA Removal</b>	54
<b>POG</b> <b>Comments</b> Does not meet criteria.	Potential Old Growth		<b>SCA Removal</b>	2



## 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>POG</b> <b>Comments</b> Does not meet criteria.	Potential Old Growth		<b>SCA Removal</b>	8
<b>POG</b> <b>Comments</b> Does not meet criteria.	Potential Old Growth		<b>SCA Removal</b>	3
<b>POG</b> <b>Comments</b> Does not meet criteria.	Potential Old Growth		<b>SCA Removal</b>	2
<b>POG</b> <b>Comments</b> Does not meet criteria.	Potential Old Growth		<b>SCA Removal</b>	1
<b>POG</b> <b>Comments</b> Does not meet criteria.	Potential Old Growth		<b>SCA Removal</b>	2
<b>POG Removal</b> <b>Comments</b> Does not meet criteria.	Potential Old Growth		<b>SCA Removal</b>	581



**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	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	87.1	64	51-80	This is the buffer along the Stutts with a wide variety of trees, but not enough volume to be merchantable. Soils are Deford Seney Complex.
2	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	1.7	97	Unspecified	2005 - SCA-Pattern Fen Protection Potential Old Growth. Stand is mainly low ground. Low ground is cedar spruce and tamarack. Soils are Markey Mucky Peat.  2015 - No change.
3	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	1.9	97	Unspecified	2005 - SCA - Pattern Fen Protection Stand is mainly low ground. Low ground is cedar spruce and tamarack. Soils are Markey Mucky Peat.  2015 - No change.
4	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	54.0	98	Unspecified	
5	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	4.2	97	Unspecified	2005 - SCA-POG-Pattern Fen Protection Potential Old Growth. Stand is mainly low ground. Low ground is cedar spruce and tamarack. Soils are Markey Mucky Peat.  2015 - No activity other than removing POG - does not meet criteria.
6	6127 - Lowland Pine	Poletimber Medium	8.3	97	81-110	2005 - SCA-POG-Pattern Fen Protection Potential Old Growth. Stand has some very old red pine mother trees. Stand is mainly a ridge but it has low ground as well. Low ground is cedar spruce and tamarack. Soils are Deford-Augres Rubicon complex.  2015 - No activity other than removing old growth.
7	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	3.4	98	81-110	2005 - SCA-POG-Pattern Fen Protection Potential Old Growth. Stand has some very old red pine mother trees. Stand is mainly a ridge but it has low ground as well. Low ground is cedar spruce and tamarack. Soils are Deford-Augres Rubicon complex.  2015 - No change other than removing POG.
8	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	3.1	97	Unspecified	2005 - SCA-POG-Pattern Fen Protection Potential Old Growth. Stand is mainly low ground. Low ground is cedar spruce and tamarack. Soils are Markey Mucky Peat.  2015 - No activity other than removing POG.
9	6120 - Lowland Cedar	Poletimber Medium	20.3	98	Unspecified	2005 - SCA-POG-Pattern Fen Protection Potential Old Growth North end has some red and white pine logs, south end has a substantial tamarack component but diameter really falls off and most is sub-merchantable. Soil type is Markey Mucky Peat  2015- No change other than remove POG.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
12	6139 - Mixed Lowland Forest	Poletimber Medium	23.7	97	81-110	This is low ground mixed hardwood along the stutts creek. No activity.
13	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Medium	23.4	7	Immature	[12-02-02] Stand was never scarified after cut, stand was trenched and seeded in the summer of 2002 (28 acres), schedule a regen check in 2005. Walked through stand, very few trees, stand needs to be planted, codes are bieng switched to reflect this. Soils are Proper fine sands. FTP # C41-877(8/22/05 AP) 2005 Regen count results - 333 jack pine per acreStand is on the list to be planted spring 2006.(5/22/06AP) Stand planted with jack pine using inmates in spring 2006 - 14,500 trees. Regen check scheduled in 2007.(11/8/06 AP) 2007 regen check - 628 jack pine. Regen check needed in 2009.(6/15/09 AP) 2009 regen check - 336 jack pine, 102 red pine, 32 white pine, 16 black spruce. Stand is on list to be planted again in spring 2010.(6/2/2010 AP) FTP-877 is closed. A walkthrough was done since regen counts seemed to be lower than expected. Stand is fully stocked and most of the trees are 8 feet tall. No further work needed.
14	42210 - Natural Red Pine	Sawtimber Poor	22.7	79	1-50	Stand was likely once white pine and it burned very hard after logged at the turn of the century. The aspen is now pioneered on-site which is poor quality. The red pine is much heavier on the southern portion of the stand near the E type possibly because of an improved micro-climate. Stand is 2 or 3 different ages, there are some very nice red pine poles. Cut aspen out and thin through the heavier areas of red pine. Aspen will sprout back so cut stand in summer to get some scuffing of the soil to encourage red pine. Manage as a natural system with current species mix. Soils are Proper fine sands. Do not cut oak and hemlock. The Habitat type is PVE.[7/16/07 BB] Stand is now on proposal 41-016-07-01," Around the Gate Again Sale". Actual stand acres = 19. Residual Basal area for the stand includes 7 sq feet of white pine and 22 sq feet of red pine. The same residual is essentially the retention except that the trees occur in patches, some being heavier. Someday these patches may need work which is ok as long as minimum retention is met. Other species were also excluded with the red paint line especially along the E type. Stand consists of Unit 6.(10/30/2012 TI) Sale # 41-016-07-01 Around the Gate Again is now closed. TCR date is 10/16/2012.2015 - Stand was not cut in summer, so did not get scarification that wanted. However, regeneration is coming in. The sub-canopy represents the new regeneration.
15	42220 - Natural Jack Pine	Poletimber Medium	9.2	50	Unspecified	2015 - Stand is healthy, not a lot of dead trees, but diameter, acreage and stocking is small.  2005 - Stand is several ages, its an old grass opening which is filling in. Prior to that it was likely white pine. There are still few small grass areas. Soils are Proper fine sand.
16	42220 - Natural Jack Pine	Poletimber Well	4.1	47	111-140	It is not clear if we own this strip of land. The NW corner of the cut to the south is marked with a metal bar, not surveyed. No corner in NE corner.  Needs survey work. If we own, should harvest with stands 26 and 42,



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	7.1	98	Unspecified	2005 - SCA-POG-Pattern Fen Protection Potential Old Growth. Stand is mainly low ground. Low ground is cedar spruce and tamarack. Soils are Markey Mucky Peat.  2015 - No activity other than removing POG.
19	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	6.0	98	Unspecified	2005 - SCA-POG-Pattern Fen Protection Potential Old Growth. Stand is mainly low ground. Low ground is cedar spruce and tamarack. Soils are Markey Mucky Peat.  2015 - No activity other than removing POG.
21	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	1.2	97	Unspecified	SCA-POG-Pattern Fen Protection Potential Old Growth Markey Mucky Peat.  2015 - Stand is starting to fill in, but no activity other than remove POG.
22	6120 - Lowland Cedar	Poletimber Poor	67.3	104	Unspecified	2005 - SCA-POG-Pattern Fen Protection Potential Old Growth There is a spruce component not reflected on plots and the cedar is much thicker near the river. There is an old Road that shows on the photos that goes to some private to the north, the road is 25-30 years old and is completely grown in, it was only a winter road. Soils are Markey Mucky Peat.  2015 - No change other than removal of POG.
23	6120 - Lowland Cedar	Poletimber Medium	25.9	113	Unspecified	
24	6120 - Lowland Cedar	Poletimber Medium	17.9	113	Unspecified	2005 - SCA-POG-Pattern Fen Protection Potential Old Growth Scattered red and white pine logs Soil type is Markey Mucky Peat  2015 - No change other than remove POG.
26	6126 - Lowland Jack Pine	Poletimber Well	6.0	83	51-80	Not sure where the corners are located, if compartment lines are correct, we own this and cut more to south than needed, not sure. This was left from harvest, but there is not enough to volume to harvest.
27	42220 - Natural Jack Pine	Sapling Well	84.9	25	Immature	2005 - The ridge on the east is regenerated well to Jack pine with a few holes present, The rest of the stand which is low ground is spotty due to the amount of drains in stand. Soils are Deford Muck. No measurable basal area yet.  2015 Trees are still growing and filling in, still not big enough to get ba.
28	42220 - Natural Jack Pine	Sapling Well	34.4	25	Immature	2005 - Pretty decent J3 stand considering amount of lowland drains dissecting stand. Soils are Deford Muck. No measurable BA yet.  2015 - Stand still looks good.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
29	42210 - Natural Red Pine	Sawtimber Medium	20.2	115	81-110	<p>[1/17/03 BB] Stand was cut in 2000, 40 acres were scarified in the summer of 2002 with department staff and the 440 skidder. Schedule a regen check in summer of 2005.</p> <p>Stand is bieng split this entry, this portion of old stand 19 has an overstory of red pine ranging in BA from 10-100 sq ft. Stand was counted in spring of 04 with the following result; Jack pine = 157tpa, red pine=57tpa, red maple=257tpa, aspen=214tpa, spruce=29tpa, white pine= 57tpa, fir=86tpa; total 856 tpa. TMS recommendation was to fill holes in by planting red pine with inmates. Stand planted Summer/fall 2004. Stand counted spring 2005; 43 tpa of black spruce. 300 tpa white pine, 214 tpa fir and and 214 tpa of aspen. The stand now has 717 tpa of regeneration but 0 of the desired species of red pine.</p> <p>After walking through the stand and seeing very little regeneration and knowing there were problems with the count info due to the split stand shedule stand to be burned. If red pine regenerates remove the overstory next entry. Soils in stand are Finch-spot complex.</p> <p>(3/22/11 AP) FTP C41-1283 is cancelled. A field check in summer of 2010 showed the following: It is not fully stocked, but there is enough red pine, white pine, jack pine, that burning would not be a good option. Thick areas of residual red pine exist also and stand could possibly have an overstory removal harvest in the future and have holes in stand planted.</p> <p>2015 - Stand is still variably stocked, but healthy. Hold stand for another 10 years and harvest with the spruce in the southern part of stand 42.</p>
30	6122 - Black Spruce	Poletimber Medium	10.6	64	Unspecified	<p>Stand has some merchantable jack pine and white pine but most of it is sub-merchantable to 1 stick spruce. Stand will hold. Soils are Deford Muck.</p>
31	6126 - Lowland Jack Pine	Sapling Poor	61.7	15	Immature	<p>Bear Slough Sale 31-97, 14 acres scarified the rest is low ground and inoperable to the skidder. Schedule a regen check in 1 year.</p> <p>Regen Survey Results; Jack Pine=500 tpa; Black Spruce=288 tpa; red maple=21tpa, cherry=14 tpa, white pine=14 tpa. Close FTP C41-833 at review, stand is fully regenerated. Spruce component will likely increase as time goes on. Soils in the compartments are Deford-Augres Rubicon complex for the higher ground and Deford Muck on the lower ground.</p> <p>2015 - Regeneration looks good.</p>
32	6120 - Lowland Cedar	Poletimber Medium	3.2	113	111-140	<p>SCA-POG-Pattern Fen Protection Potential Old Growth Scattered red and white pine logs Soil type is Markey Mucky Peat</p> <p>2015 - No activity other than remove POG.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
33	6122 - Black Spruce	Sapling Poor	4.8	10	Immature	<p>Part of "Around The Gate Sale" prepped in 1996 but never cut since access through private could not be obtained, stand is being prescribed again but factor limited due to private. Soils are Markey Mucky Peat. Do not cut oak and hemlock.</p> <p>[7/16/07 BB] Stand is now on proposal 41-016-07-01, "Around the Gate Again Sale". Actual stand acres = 4. No residual basal area for the stand. No retention was done in the stand except for what was included in the red line due to its small size. Stand consists of Unit 4. All indications point to the landowner allowing access so the limiting factors were dropped.</p> <p>(10/30/2012 TI) Sale #41-016-07-01 Around the Gate Again is closed. TCR date is 10/16/2012.</p> <p>2015 - The submerchantable trees are dominating the canopy at this time. There are some younger trees coming in the understory, but it will take time due to how low the ground is.</p>
34	42220 - Natural Jack Pine	Poletimber Well	32.8	25	Immature	<p>2005 - Stand is fully stocked with jack pine and spruce, more jack pine though. The high ground knobs have somewhat poorer regen though. Soils are Deford-Agres_Rubicon complex.</p> <p>2015 - Stand looks good, no activity.</p>
36	6125 - Lowland Black Spruce, Jack Pine	Poletimber Poor	32.0	101	Unspecified	<p>2005 - Jack pine nearly all dead, spruce is in much better shape. Much of the stand is flooded from Bear Slough. Soils are Deford Muck. 10-20 sq ft of dead jp snags.</p> <p>2015 - This stand is sparsely stocked and on low ground. There is not enough merchantable volume.</p>
37	6122 - Black Spruce	Poletimber Medium	40.5	77	51-80	<p>2005 - Lots of sub-merchantable spruce, stand will hold some jack pine may fall out though. Soils are Deford-Auges-Rubicon Complex.</p> <p>2015 Lots of submerchantable trees. Not enough merchantable wood to harvest. No activity at this time.</p>
39	613 - Lowland Mixed Forest	Poletimber Poor	8.1	101	Unspecified	<p>2005 - Stand was once coniferous but now converting to E. Some spruce and red maple regen but mostly L. Hardwoods are not nearly as old as conifers. Soils are Deford Muck</p>
40	6125 - Lowland Black Spruce, Jack Pine	Poletimber Medium	8.2	72	81-110	<p>2005 - There is some white pine not showing on plots. Low ground. 2 aged stand, manage for the spruce so hold 1 more entry. Soils are Finch-Spot Complex.</p>
41	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	7.3	77	1-50	<p>2005 - Stand filling in to soft maple. Soils are Finch Spot complex. Aspen in comp to the west was left as retention do not cut this stand.</p> <p>2015 - Very low ground. There is a small patch of aspen at the southern tip.</p>
42	6122 - Black Spruce	Poletimber Well	72.3	79	81-110	<p>2005 - Stand has pockets of jack pine which is mature, could schedule now but the spruce diameter still quite small and would do better given 1 more decade. Soils are Finch spot complex and the habitat type is PARVAa2015 - Lots of small diameter and variable stocking. The trees average 3 sticks tall.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
43	6122 - Black Spruce	Poletimber Poor	47.0	101	Unspecified	2005 - Jack pine nearly all dead, spruce is in much better shape. Much of the stand is flooded from Bear Slough. Soils are Deford Muck. 10-20 sq ft of dead jp snags.
44	42220 - Natural Jack Pine	Sapling Medium	39.3	25	Immature	2005 - Stand is as well stocked as its going to get due to the amount of low ground and drains in stand. Stocking is all over the board but a J2 overall. Spruce component as well. There is some scraggily 1-2 stick residual older red maple in the northern portion of the stand. Soils are Deford Muck.
46	429 - Mixed Upland Conifers	Poletimber Medium	6.0	83	Unspecified	2005 - Stand is a small Hodge podge mix with some cedar to north that did not show on plots. All aged stand should be cut in conjunction with adjacent stand 20 when its cut. Soils are Augres-Deford complex.  2015 - This stand has not changed much in 10 years and will be added to the harvest of stand 42.
47	42390 - Mixed Non- Pine Upland Conifers	Poletimber Well	34.8	25	141-170	2005 - Stand is fully regenerated could be an A3 or an F3. There are areas where the aspen is poor quality, these areas will be taken over by fir in the future. No basal area yet. Soils are Augres-Deford complex.  2015 - Stand is converting to black spruce looks healthy and well stocked.
48	42140 - Planted Mixed Pine	Sapling Medium	27.7	11	Immature	[1/17/03 BB] Stand was cut in 2000, 40 acres were scarified in the summer of 2002 with department staff and the 440 skidder. Schedule a regen check in summer of 2005. Stand was counted in spring of 04 with the following result; Jack pine = 157tpa, red pine=57tpa, red maple=257tpa, aspen=214tpa, spruce=29tpa, white pine= 57tpa, fir=86tpa; total 856 tpa. TMS recommendation was to fill holes in by planting red pine with inmates. Stand planted Summer/fall 2004. Original stand was split with new inventory. Stand was counted spring 2005; 505 tpa of jack pine, 216 tpa of red pine, 36 tpa of Black Spruce, 108 tpa white pine and 36 tpa of fir, 901 tpa overall. Soils in stand are Finch-spot complex. Stand also has a spattering of red pine logs, less than 10 sq ft. (6/3/2010 AP) FTP C41-887 is closed.  2015 - Looks good. Some scattered red pine in the overstory.
49	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	32.6	84	Unspecified	2005 - Stand needs to be held for age class structure because of the large Interstutts Sale on the opposite side of the river. Soils are Deford Seney Complex.  Not a lot of change. Very low ground and stocking.
50	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	5.1	97	Unspecified	2005 - SCA-POG-Pattern Fen Protection Potential Old Growth. Stand is mainly low ground. Low ground is cedar spruce and tamarack. Soils are Markey Mucky Peat. 2015 - No activity other than removing old growth.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
53	42220 - Natural Jack Pine	Sapling Well	94.3	16	Immature	PART OF INTERSTUTTS SALE (Stand was cut winter 1999 and TSI'd summer 2000) Stand types as aspen but there as a lot of fir as well, some areas are heavier to fir. Former OI had some small jack pine inclusions typed out that were scarified, jack pine did come back but the stands were to small to type out again, CLOSE FTP C41-715. Soils are Rousseau-Neconish Spot complex.  2015- Some larger diameter jack pine and black spruce.
56	42220 - Natural Jack Pine	Poletimber Well	6.9	41	81-110	Stand should be managed with C-27 stand 29. Soils are Augres-Deford Rubicon Complex.
57	42220 - Natural Jack Pine	Sapling Medium	68.8	17	Immature	1/7/04 BB] Stand is covered under FTP-673, it is believed the stand was at least partially scarified but no record was found. Stand was counted in 2002, 1054 tpa were surveyed. FTP was closed with a blanket letter. Soils are Finch Spot Complex. 2015 - Stand is well-stocked and healthy. Edges are wetter and not as heavily stocked, also black spruce is denser in those areas.
59	42220 - Natural Jack Pine	Poletimber Medium	0.9	30	Immature	Stand was cut in 1990, Hac & Cof Camp Block. Decent jack pine stocking with good height growth but diameter lagging so no BA yet. Soils are Finch-Spot Complex.  2015 - Good regeneration. Diameter is small but stocking is good.
62	42220 - Natural Jack Pine	Sapling Well	16.9	25	Immature	Stand was cut in 1990, Hac & Cof Camp Block. Decent jack pine stocking with good height growth but diameter lagging so no BA yet. Soils are Finch-Spot Complex.  2015 - Regeneration looks good, well stocked though diameter is still small.
63	42220 - Natural Jack Pine	Sapling Medium	2.7	25	Immature	Stand was cut in 1990, Hac & Cof Camp Block. Decent jack pine stocking with good height growth but diameter lagging so no BA yet. Soils are Finch-Spot Complex.  2015 - Regeneration looks good diameter is still small, but stocking is good.
65	42220 - Natural Jack Pine	Sapling Medium	3.6	17	Immature	1/7/04 BB] Stand is covered under FTP-673, it is believed the stand was at least partially scarified but no record was found. Stand was counted in 2002, 1054 tpa were surveyed. FTP was closed with a blanket letter. Soils are Finch Spot Complex.  2015 - Stand looks good.
66	42220 - Natural Jack Pine	Sapling Poor	26.8	25	Immature	Stand was cut in 1990, Hac & Cof Camp Block. Decent jack pine stocking with good height growth but diameter lagging so no BA yet. Soils are Finch-Spot Complex.  2015-Stand looks good. Regeneration is over 10 feet and well stocked.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
67	42220 - Natural Jack Pine	Poletimber Well	26.4	50	171-200	This stand is a smaller diameter than the jack pine to the north (stand 69). There is some low ground and drains mixed in. Trees look healthy. Stand was cut in the early to mid 1960's. Seed trees were left. Soils are Finch Spot Complex.
69	42220 - Natural Jack Pine	Poletimber Well	21.7	55	111-140	From 2005 - Stand was cut through in the early 60's, it was called a seed tree cut and was accomplished by using a diameter limit, the stand regenerated well, but many of those older trees are still alive creating almost a 2 aged stand. Soils are Proper Fine sand.
70	6126 - Lowland Jack Pine	Poletimber Well	37.0	51	111-140	Stand was cut in the early to mid 60's, not necessarily a complete clear cut, seed trees were left. Stand is a mix of high and low ground. The high ground came back very well and the low ground is coming just a bit slower. Soils are Finch Spot complex.
71	42290 - Natural Mixed Pine	Poletimber Well	22.8	55	171-200	Stand is planted red pine. However, there was never any release done so many there is a lot of jack pine now in stand, hold another decade and re-evaluate. Soils are Finch Spot Complex.  2015 - Stand is healthy, though could be thinned.
72	42110 - Planted Red Pine	Poletimber Well	25.3	54	171-200	Stand is a plantation, this will be the first thinning. Soils are Proper Fine Sand Do not cut oak and hemlock.  [7-16-07 BB] Stand is now on proposal. 41-017-07-01 Forked Beaver Pine. Residual Basal area = Red Pine 90 sq feet, white pine 2 sq feet. Actual Stand acres is 24. Unit 1. Retention includes large diameter red and white pine as well as trees excluded in the boundary line especially along northern E type.  [8/31/2012 TI] Sale is closed. TCR date 1/7/2012.
73	429 - Mixed Upland Conifers	Sapling Poor	3.3	3	Immature	Stand is several age classes. There are some really nice red pine logs that are older than the jack pine and there is some aspen that has filled in as well. There is some white birch within stand that didn't fall on plots. Keep the sale out of the planted red pine in stands 52 and 39. Leave some red pine for seed as well. Soils are proper fine sands and the Habitat type is PVE. Jack pine is the only acceptable MO. The green-up requirement has been met. Do not cut oak and hemlock.  [7-16-07 BB] Stand is now on proposal. 41-017-07-01 Forked Beaver Pine. No residual BA, Actual Stand acres is 16. Unit 2. Stand is also on FTP C41-1337 for regeneration. Retention includes 2 patches bounded in green paint.  (9/15/2010 AP) Stand scarified summer 2010. Regen count scheduled 2014.  [8/31/2012 TI] Sale is closed. TCR date 1/7/2012. Stand will be added to the regeneration time clock.  2015 - Stand has not regenerated very well. Trench and Plant.
75	42220 - Natural Jack Pine	Sapling Well	8.9	25	Immature	Nice J3, No BA yet. Soils are Proper Fine sands  2015 - Stand still looks good! No activity.

S  
t  
a  
n  
d

Shingleton Mgt. Unit

## Report 8 – Forested Stands

Compartment: 26  
Year of Entry: 2017

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
<b>76</b>	42290 - Natural Mixed Pine	Poletimber Well	12.8	72	51-80	Stand was cut through in 1990. The red pine logs that were left were variable in stocking 30 sq ft overall. The understory came back thick to jack pine and there is some red pine but not much. The red pine could be removed if jack pine was an acceptable conversion. Soils are Finch Spot Complex and the Habitat type is PARVAa.
<b>77</b>	42350 - Upland Hemlock	Sawtimber Medium	11.6	113	Unspecified	2005 - Stand was cut through in 1999 with the Inter Stuttz Sale, all species except hemlock were cut. The basal area now is very sporadic. Understory is maple/aspen. Soils are Rubicon Sand.  2015 - The understory is filling in, stand looks healthy.
<b>78</b>	6122 - Black Spruce	Poletimber Well	28.0	51	Unspecified	This jack pine stand is a lower ground and smaller diameter trees than the surrounding jack pine.



Stand	Cover Type	Acres	Managed Site	General Comments:
10	3303 - Mixed Low Density Trees	24.1		<p>Jack pine will not hold any longer, needs to be cut now. There is a lot of sub-merchantable spruce. No buffer along Bear slough just protect it from slash and don't cross if land owner gives access. Stand to low to do any scarification, adjacent stands seem to regerate well on their own. Site may convert to spruce which is ok as long as jack pine remains a component. Stand 10 to the east is not 5' tall yet but the green up requirement should be met by the time the stand is prepped/cut. Do not cut oak and hemlock. Soils are Deford Muck.</p> <p>[7/16/07 BB] Stand is now on proposal 41-016-07-01, " Around the Gate Again Sale". Actual stand acres = 28. No residual basal area for the stand. Retention includes a patch bounded in red paint. Stand consists of Units 5.</p> <p>(10/16/2012 TI) Sale # 41-016-07-01 Around the Gate Again TCR 10/16/2012.</p> <p>2015 - Sub-merchantable black spruce and red maple were left. There are small black spruce less than 4 feet throughout that stand, but no saplings as of yet. Monitor for regeneration, might consider seeding by snowmobile. Lots of water.</p>
11	500 - Water	2.3	No	Stutts Creek.
17	622 - Lowland Shrub	658.7	No	
20	330 - Low-Density Trees	94.6	No	<p>2005 - SCA-POG-Pattern Fen Protection Potential Old Growth. Stand is mainly low ground. Low ground is cedar spruce and tamarack. Soils are Markey Mucky Peat.</p> <p>2015 - No change other than remove POG.</p>
25	500 - Water	17.1	No	Bear Slough. Some black spruce and jack pine on edges otherwise comprised of tag alder and other shrubs.
35	3302 - Low Density Conifer Trees	57.2	No	<p>Stand was set up in 1996 "Around the Gate Sale", it was never sold because access could not be obtained long term from the landowner to the south. Stand was typed as jack pine last time but there was more spruce volume on the cruise, the type was changed to spruce, however there still is enough high ground jack pine to scarify. Stand is bieng prescribed again, still healthy but factored due to blocked access by a private land owner. Original sale volumes are as follows- Black Spruce=526 cds, Jack Pine 417 cds, Tamarack= 49 cords and hardwood 26 cds. Soils are Deford-Augres-Rubicon Complex. Do not cut oak and hemlock.</p> <p>(12/28/05) FTP canceled with a letter</p> <p>[7/16/07 BB] Stand is now on proposal 41-016-07-01, " Around the Gate Again Sale". Actual stand acres = 62. No residual basal area for the stand. Retention includes one long patch along Unit line which is a seasonal drainage. Stand consists of Units 1 and 2. Stand is also on FTP C41-1336 for Jack pine regeneration on the high ground. All indications point to the landowner allowing access so the limiting factors were dropped.</p> <p>(10/12/2012 AP) Stand was scarified by Holli Forest Products in fall 2012. Regen count scheduled for 2017.</p> <p>(10/30/2012 TI) Sale # 41-016-07-01 Around the Gate Again is closed. TCR date is 10/16/2012.</p> <p>2015 - Stand was recently cut and a few submerchantable black spruce are scattered throughout the stand as well as red maple whips starting to sprout.</p>
38	500 - Water	27.3	No	Bear Slough.



Stand	Cover Type	Acres	Managed Site	General Comments:
45	330 - Low-Density Trees	17.9	No	<p>2005- Stand is poorly stocked but it is mature. Ground is quite low so scarification is not an option. Stand is coded for just follow up counts after harvest. Spruce is an acceptable alternative MO. The green-up requirement has been met. Soils are Deford Muck Do not cut oak and hemlock.</p> <p>[7/16/07 BB] Stand is now on proposal 41-016-07-01, "Around the Gate Again Sale". Actual stand acres = 16. No residual basal area for the stand. No retention was done for the stand except what was excluded with the red paint line. In addition there are a lot of snag trees which will not be cut. Stand consists of Units 3.</p> <p>(10/16/2012 TI) Sale # 41-016-07-01 Around the Gate Again is now closed. TCR date 10/16/2012.</p> <p>1-15-15 No visible jack pine, some black spruce starting to show through. Too early - reevaluate in 5 years.</p>
51	500 - Water	3.7	No	North Branch Stutts Creek
52	622 - Lowland Shrub	1.9	No	Soils are Deford Seney Complex.
54	3302 - Low Density Conifer Trees	45.4		<p>Stand is predominately low ground but is being scheduled for scarification so that the high ground that exists can be scarified. Stand was partially cut through in the early 60's as a seed tree cut and may be 2 aged in some areas. However, the heavier cut areas were split out. Soils are Finch Spot complex and the Habitat type is PArVAa. Spruce is an acceptable alternative MO as long as jack pine is a component. The green-up requirement has been met. Do not cut oak and hemlock.</p> <p>[7-16-07 BB] Stand is now on proposal. 41-017-07-01 Forked Beaver Pine. No residual BA, Actual Stand acres is 44. Unit 4. Stand is also on FTP C41-1337 for regeneration. Retention includes 3 patches that are bounded in red paint.</p> <p>(11/24/2011 AP) Stand was scarified in summer of 2011. Regen count to occur in 2015.</p> <p>[8/31/2012 TI] Sale is closed. TCR date 1/7/2012. Stand will be added to the regeneration timeclock.</p> <p>11/10/2014 - Stand failed regen count, recommend trenching and planting higher ground.</p>
55	3302 - Low Density Conifer Trees	12.9		<p>Stand is several age classes. There are some really nice red pine logs that are older than the jack pine and there is some aspen that has filled in as well. There is some white birch within stand that didn't fall on plots. Keep the sale out of the planted red pine in stands 52 and 39. Leave some red pine for seed as well. Soils are proper fine sands and the Habitat type is PVE. Jack pine is the only acceptable MO. The green-up requirement has been met. Do not cut oak and hemlock.</p> <p>[7-16-07 BB] Stand is now on proposal. 41-017-07-01 Forked Beaver Pine. No residual BA, Actual Stand acres is 16. Unit 2. Stand is also on FTP C41-1337 for regeneration. Retention includes 2 patches bounded in green paint.</p> <p>(9/15/2010 AP) Stand scarified summer 2010. Regen count scheduled 2014.</p> <p>[8/31/2012 TI] Sale is closed. TCR date 1/7/2012. Stand will be added to the regeneration timeclock.</p> <p>There is a residual overstory of black spruce, red pine, balsam, red maple and aspen. Stand was scarified, but did not provide adequate regeneration.</p>



Stand	Cover Type	Acres	Managed Site	General Comments:
58	6229 - Mixed lowland shrub	2.8	No	<p>Stand is an un-cut strip between Federal land and state land that was likely left because old sale lines were placed before the corners. Jack Pine is the only acceptable MO, a spruce component is fine. The green-up requirement has been met. Do not cut oak and hemlock.</p> <p>[7-16-07 BB] Stand is now on proposal. 41-017-07-01 Forked Beaver Pine. No residual BA, Actual Stand acres is 8. Unit 3. Stand is also on FTP C41-1337 for regeneration. No retention was done in this stand due to the high number of snags and blowdown as well as all non-merchantable trees will be left.</p> <p>(11/24/2011 AP) Stand was never scarified. Too wet and bad access. Regen count to occur in 2015.</p> <p>[8/31/2012 TI] Sale is closed. TCR date 1/7/2012. Stand will be added to the regeneration time clock.</p> <p>2015 - Overstory has scattered red maple and black spruce, understory has black spruce and jack pine. Not a lot of regeneration at this point. May need to consider seeding with snowmobile.</p>
60	6229 - Mixed lowland shrub	4.4	No	<p>Stand is an un-cut strip between Federal land and state land that was likely left because old sale lines were placed before the corners. Jack Pine is the only acceptable MO, a spruce component is fine. The green-up requirement has been met. Do not cut oak and hemlock.</p> <p>[7-16-07 BB] Stand is now on proposal. 41-017-07-01 Forked Beaver Pine. No residual BA, Actual Stand acres is 8. Unit 3. Stand is also on FTP C41-1337 for regeneration. No retention was done in this stand due to the high number of snags and blow-down as well as all non-merchantable trees will be left.</p> <p>(11/24/2011 AP) Stand was never scarified. Too wet and bad access. Regen count to occur in 2015.</p> <p>[8/31/2012 TI] Sale is closed. TCR date 1/7/2012. Stand will be added to the regeneration time clock.</p> <p>2015 - Overstory is made of red maple and black spruce poles, some jack pine and black spruce starting to come in, but not a lot at this time. May need to consider seeding with snowmobile since it is too wet and remote to get equipment/planted to.</p>
61	6224 - Treed Bog	13.8	No	
64	6224 - Treed Bog	49.0	No	
68	3302 - Low Density Conifer Trees	44.2		<p>Stand has some really nice red pine logs, try and leave some smaller pole sized red pine to keep the component in the stand. Portions of the stand may have been cut through in the early 60's when seed tree cuts were done. Jack pine is the only MO which is acceptable. The green-up requirement has been met. Do not cut oak and hemlock. Soils are Proper Fine sand and the Habitat type is PVE.</p> <p>[7-16-07 BB] Stand is now on proposal. 41-017-07-01 Forked Beaver Pine. No residual BA, Actual Stand acres is 41. Unit 5. Stand is also on FTP C41-1337 for regeneration. Retention includes 3 patches bounded in red paint.</p> <p>(9/15/2010 AP) Stand scarified summer 2010. Regen count scheduled 2014.</p> <p>[8/31/2012 TI] Sale is closed. TCR date 1/7/2012. Stand will be added to the regeneration timeclock.</p>



Stand	Cover Type	Acres	Managed Site	General Comments:
74	3301 - Low Density Deciduous Tree	1.4	No	This is an opening that is starting to fill in with aspen.