

Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41039 Entry Year 2017 Acreage: 2,389

County Schoolcraft

Management Area: Seney Manistique Swamp

Revision Date: 2015-08-04

Stand Examiner: Adam Petrelius

Legal Description:

T43N R16W Sections 19, 20, 29, 30

Identified Planning Goals:

This compartment lies within the Seney-Manistique Swamp Management Area. The main goal of this compartment is to conduct multiple resource management for current and future generations.

Soil and topography:

The topography in this compartment is mostly flat, with slightly higher elevations existing on the islands of pine and aspen located with the marsh. Soils in the compartment support mixed pine/aspen stands, lowland brush/marsh, and lowland conifer species. The major soil types found within the compartment, in order of abundance, are Markey Mucky Peat, Rousseau-Neconish-Spot Complex, Carbondale-Lupton-Tawas Mucks, and Deford-Augres-Rubicon Deep Water Table Complex. The major habitat types within the compartment, in order of abundance, are Unclassified Wetland, PVE, PArVAa, and PArV. The entire compartment lies within the Mint Farm Land Type Association.

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

State land within this compartment was acquired between 1906 and 1974. Most of the land was tax reverted, but some was purchased and exchanged with both private individuals and the United States Forest Service. The entire western boundary of the compartment borders the United States Forest Service. The entire southern boundary borders state land. Approximately ¾ of the north and east compartment boundary borders state land. Adjacent land along the compartment boundary is owned by Plum Creek. A camp is located on the 120 acre parcel of private land that lies within the compartment boundary.

Unique Natural Features:

Under review.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

A small portion of stands in this compartment are located within the deeryard, and are classified as a Special Conservation Area.

Watershed and Fisheries Considerations:

Smith Creek is found in this compartment and is considered to be warm-water. Previous fishery surveys have found shiners, mudminnows, and dace. BMP's should be followed as inputs of sediment and increases in sand bedload need to be prevented.

Wildlife Habitat Considerations:

This compartment is on the south side of an area locally known as the Mint Farm. It is dominated by marsh/ low ridge and lowland shrubs. Smith creek traverses this compartment from north to south. The first surveyors reported that tamarack, spruce, and jack pine were the most common trees in forested areas. Other species recorded included red pine, aspen, white pine, white birch, cedar, and fir. Circa 1900, a large drainage ditch (The Big Ditch) was dug to drain this area for agricultural purposes. In the western portion of the compartment these efforts resulted in a lowered water table enabling the land to support more trees. Most of the marsh and lowland shrub areas remain fairly unchanged from pre-settlement times. However, areas that may have been altered by The Big Ditch now support an aspen community. Jack pine has replaced tamarack and spruce as the dominant tree species on the ridges within the marsh. Featured species in this compartment are beaver, moose, ruffed grouse, sharp-tailed grouse, snowshoe hare, and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine sand and gravel and peat and muck. 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 08/25/2015 8:32:08 AM - Page 1 of 2

Big Hill could be used for stone/dolomite. Gravel pits are not located in this area and potential appears to be limited. There is no commercial oil and gas production in the UP. A dry hole was drilled five miles to the southeast in 2005 (Trenton Formation test).

Vehicle Access:

The Smith Creek Truck Trail travels south through the compartment, and is the main route into state land located north of Indian Lake. This forest road is used by many landowners to access their camps. Plans are underway to replace the bridge located on Smith Creek. The western portion of the compartment is accessed from a forest road that parallels the Big Ditch. Most of the roads which branch off the 2 main forest roads into the compartment were created from past timber sales. Many of these roads are overgrown and of poor quality.

Survey Needs:

None

Recreational Facilities and Opportunities:

There are no recreational facilities within this compartment. Opportunities include hunting, hiking, berry picking, and riding ORV's.

Fire Protection:

Response time to fires within this compartment will be moderate to slow. Most of the old roads located within the compartment are narrow, wet, and would not support large fire equipment. This compartment has 2 water sources, Smith Creek and the Big Ditch. During dry summer conditions fires can burn in the deep organic soils found throughout most of this compartment. In the summer of 2005 a fire located on similar soil types burned 45 acres of USFS land just west of this compartment. A small lightning strike fire occurred in 2012 here also along the side of Smith Creek Road.

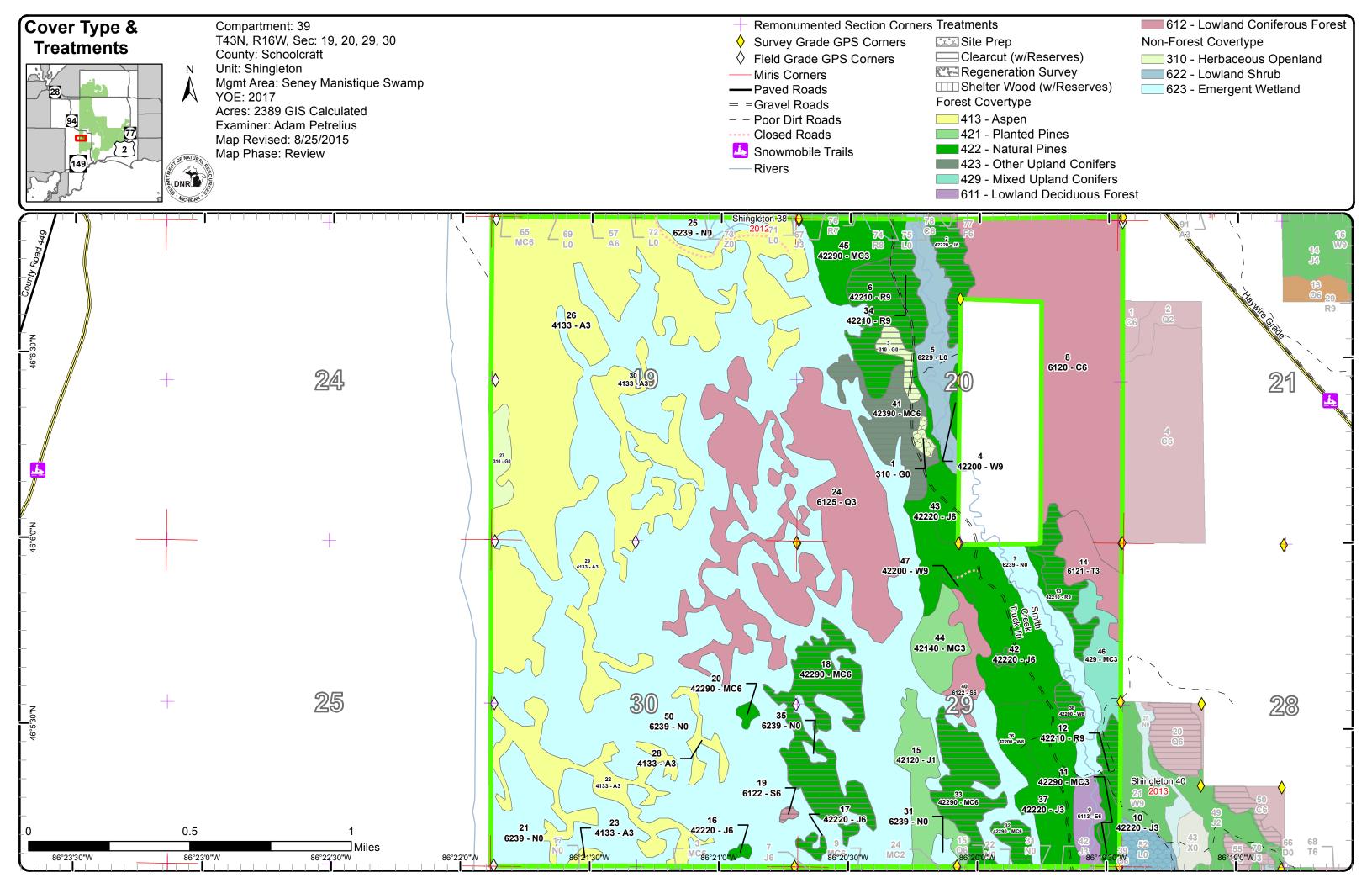
Additional Compartment Information:

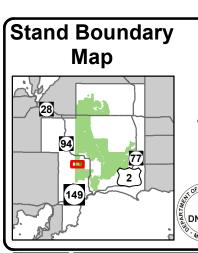
The following reports from the Inventory are attached:

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

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

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





Compartment: 39

T43N, R16W, Sec: 19, 20, 29, 30 County: Schoolcraft

Unit: Shingleton

Mgmt Area: Seney Manistique Swamp

YÖE: 2017

Acres: 2389 GIS Calculated Examiner: Adam Petrelius Map Revised: 8/25/2015

Map Phase: Review

Remonumented Section Corners Forest Covertype 413 - Aspen

♦ Survey Grade GPS Corners ♦ Field Grade GPS Corners

--- Miris Corners

—Paved Roads

= = Gravel Roads

····· Closed Roads

Rivers

- - Poor Dirt Roads

L Snowmobile Trails

421 - Planted Pines

422 - Natural Pines

423 - Other Upland Conifers

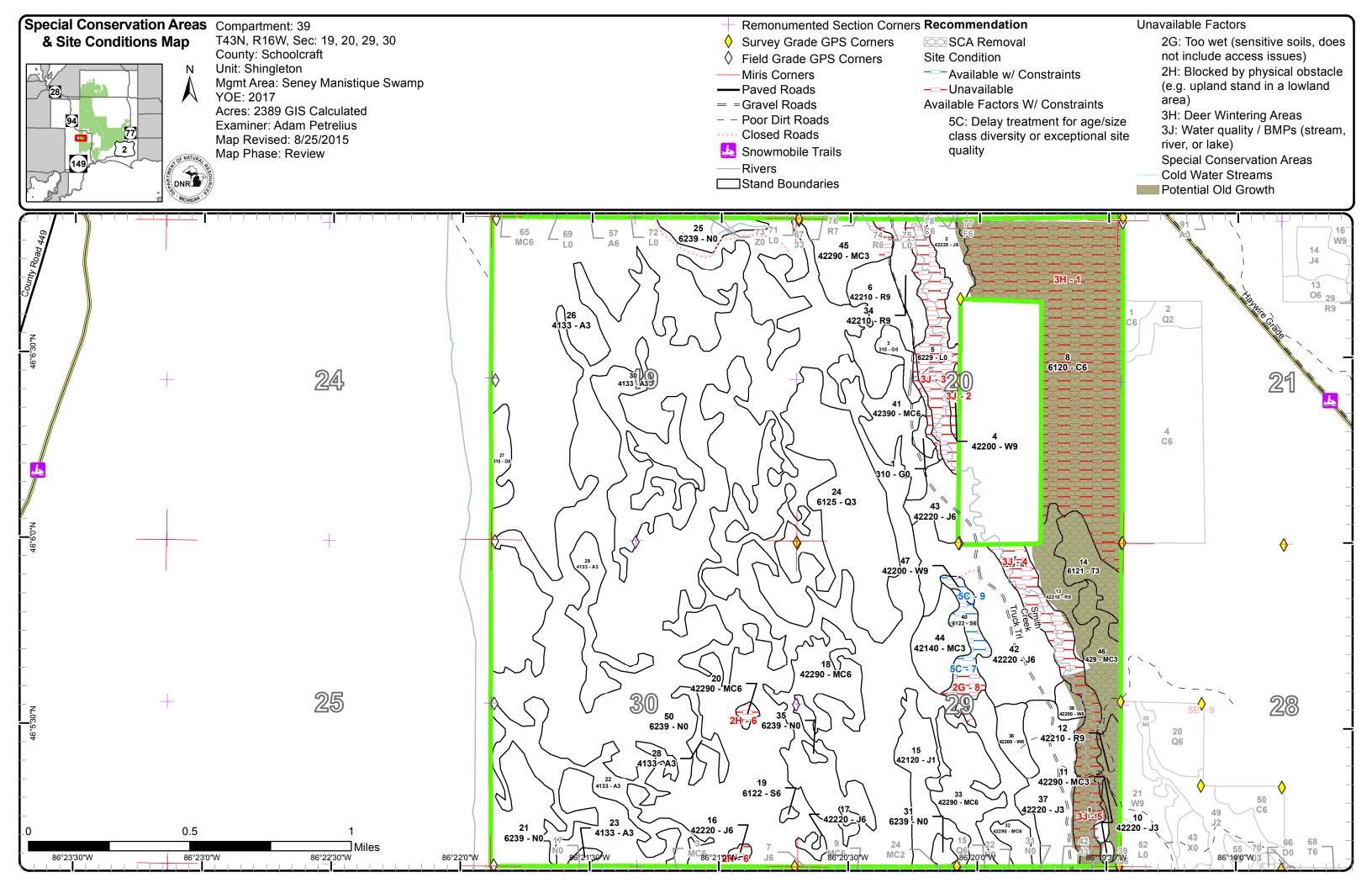
429 - Mixed Upland Conifers

611 - Lowland Deciduous Forest 612 - Lowland Coniferous Forest

Non-Forest Covertype

310 - Herbaceous Openland





Shingleton Mgt. Unit

Compartment 39

Year of Entry 2017



Adam Petrelius : Examiner

Age Class

			7		/	/	7		7		7	/	7	/			7	7	/ > /
	No.	Kor C	\$ / \$			3 / 4	No. 150	3/8		\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		8. 13. 8. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15	IN A	St Jugar	OSO NO.
Aspen	0	0	0	449	0	0	0	0	0	0	0	0	0	0	0	0	0	0	449
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	195	0	0	0	0	0	195
Herbaceous Openland	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Jack Pine	0	0	78	73	0	16	0	0	0	22	0	0	0	0	0	0	0	0	189
Lowland Conifers	0	0	0	187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	187
Lowland Deciduous	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	14
Lowland Shrub	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	18
Marsh	935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	935
Natural Mixed Pines	0	0	5	28	0	0	0	43	0	61	0	0	0	0	0	0	0	0	137
Planted Mixed Pines	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Red Pine	0	0	0	0	0	0	0	0	0	51	0	32	0	0	0	0	0	0	83
Tamarack	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Upland Conifers	0	0	23	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	55
White Pine	0	0	0	0	0	0	0	0	0	14	5	4	0	0	0	0	0	0	23
Total	996	0	151	737	0	16	0	43	14	198	5	36	195	0	0	0	0	0	2391



Report 2 – Treatment Summary

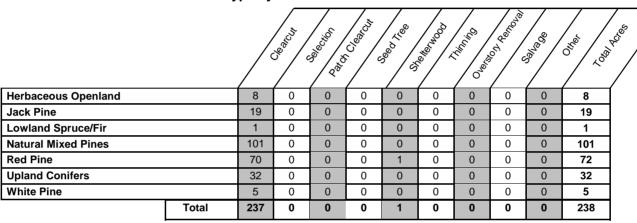
Shingleton Mgt. Unit Year of Entry: 2017

Acres of Harvest

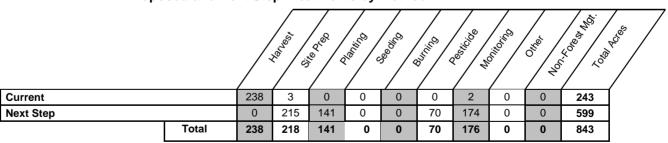
Compartment 39
Total Compartment Acres: 2,389

Commercial Harvest - 238 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Compartment: 39 Year of Entry: 2017



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
2	41039_OutOfY OE-Cut	16.3	42220 - Natural Jack Pine	Poletimber Well	85	81-110	Harvest	Clearcut with Retention	42260 - Natural Pine, Mixed	Even-Aged	Field Boundary

Habitat Cut: No Site Condition:

<u>Prescription</u> Cut all trees except hemlock and oak. Leave a few red pine and white pine for seed.

Specs:

S

Next Step Planting, Initial Plant; Monitoring, Artificial Regen(1yr)

Treatments:

Acceptable Red pine will be planted following harvest, but any species mixture is acceptable due to site's location.

Regen:

Other Access to this stand will involve the installation of a temporary bridge. This could be built and placed by the logger west of this stand. Winter Comment: havest may be needed. Survey work may be needed. There is a creek / drainage located in southern part of stand, it runs east/west. Buffer 50

feet. Buffer Smith creek 100 feet. These will be the retention areas. East edge of stand has some cedar. Cedar can be cut, but sale boundary should exclude the patches. Old next step comments: Plant red pine on ridges to maintain component. Low ground should regenerate to mixed

species. Acceptable management objectives includes any species mixture currently found onsite.

8/6/12 BB Sale is now on proposal 27-12-01 Unit 4. Residual BA = red pine 3' and white pine 1'. Retention is the residual and edge trees. The east west drainage referred to above could not be located when prepared and ended up not being there. The logger will be responsible for

building their own portable bridge. FTP C41-1530 is written for Red Pine regeneration.

Proposed Start Date: 10/1 /2011

3 41039003-2- 3.2 310 - Herbaceous Nonstocked 0 Unspec SitePrep Trenching 4212 - Planted Even-Aged Approved New Openland ified Jack Pine Proposal

Habitat Cut: Yes Site Condition:

Prescription trench and plant jack pine. scarification was tried but failed

Specs:

Next Step Treatments:

Acceptable jack pine, red pine, white pine

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

3 41039003-Cut 7.5 310 - Herbaceous Nonstocked 0 Unspec Harvest Clearcut with 4211 - Planted Even-Aged Proposal Openland ified Retention Red Pine

Habitat Cut: No Site Condition:

Prescription Cut all trees except hemlock and oak. use 2 inch spec.

Specs:

Next Step Planting, Initial Plant; SitePrep, Trenching; Planting, Initial Plant

Treatments:

Acceptable jack pine, red pine, white pine

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

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
6	41039006-Cut	31.8	42210 - Natural Red Pine	Sawtimber Well	84	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Proposal

Habitat Cut: No Site Condition:

Specs:

S

Prescription Cut all trees, live and dead, that are greater than 2 inches. Possible aerial herbicide applications in future. Buffer creek 100 feet. Less than 3% retention is acceptable. VBAR cruise may be needed. A drainage exists and should be delineated on ground. Save some cedar in this drainage as retention

WLD Comment: "This harvest will regenerate young conifer with low lying branches, creating excellent cover for snowshoe hare. Regenerating hardwood browse will bolster food availability within the stand.

SitePrep, Trenching; Pesticide, Aerial; Planting, Initial Plant; Monitoring, Artificial Regen(1yr) Next Step

Treatments:

Acceptable red pine only

Regen:

Stand could be cut in summer to avoid impacts to trail, however many other jobs currently exist which are winter work along this road system. Other

Comment: Evaluate at time of sale and minimize impacts to trail. Require Chipping. Old next step comments:

Proposed Start Date: 10/1 /2016

41039012-Cut 8.2 42210 - Natural Sawtimber 100 81-110 Harvest Clearcut with 4211 - Planted Even-Aged Proposal Red Pine Red Pine Well Retention

Habitat Cut: No Site Condition:

Prescription Cut all trees, live and dead, greater than 2 inches in diameter. Possible aerial herbicide operations in future. Buffer creek 100 feet. Less than 3% retention is acceptable. Survey work will be needed if corner is not present. Minimize impacts to snowmobile trail. Access may require a small Specs: stream crossing. VBAR cruising will be needed.

SitePrep, Trenching; Pesticide, Aerial; Planting, Initial Plant; Monitoring, Artificial Regen(1yr) Next Step

Treatments:

Acceptable red pine

Regen:

Other Old next step comments:

Comment:

10/1 /2016 **Proposed Start Date:**

12 41039012-42210 - Natural Sawtimber 100 81-110 Harvest Shelterwood 4211 - Planted Even-Aged Proposal Red Pine Well Red Pine Cutx

Habitat Cut: No Site Condition:

Prescription Mark red pine and white pine to 50 sq. ft. Cut all other trees. Buffer creek 50 feet. Minimize impacts to snowmobile trail. VBAR cruising will be needed. Specs:

Next Step Planting, Initial Plant; Monitoring, Artificial Regen(1yr)

Treatments:

Acceptable mixed deciduous and conifer trees. Due to stands small size, it will be difficult to keep it in red pine, accept any regeneration but still plant stand

with red pine at time of others.

Other Old next step comments:

Comment:

Regen:

Proposed Start Date: 10/1 /2016

41039013-Cut 18.7 42210 - Natural Sawtimber 100 81-110 Clearcut with 4211 - Planted Even-Aged Proposal Harvest Red Pine Red Pine Well

Site Condition:

Retention

Prescription Cut all trees, live and dead, greater than 2 inches in diameter. Possible aerial herbicide operations in future. Buffer creek 100 feet. Less than 3% retention is acceptable. Survey work will be needed if corner is not present. Minimize impacts to snowmobile trail. Access may require a small

stream crossing. VBAR cruising will be needed. Require Chipping

Next Step SitePrep, Trenching; Pesticide, Aerial; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)

Treatments:

Acceptable red pine

Habitat Cut: No

Regen:

Specs:

Old next step comments:

Other Comment

Proposed Start Date: 10/1 /2016

Compartment: 39

Year of Entry: 2017

S

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	18/
17	41039017-Cut	2.7	42220 - Natural	Poletimber Well	83	81-110	Harvest	Clearcut with	4222 - Natural	Even-Aged	Proposal	

Habitat Cut: No Site Condition:

Prescription Cut all trees except hemlock and oak. Leave some good quality red pine and white pine seed trees where available and located on high ground.

Retention may be excluded along the marsh edge. Less than 3% retention is acceptable.

SitePrep, Scarification; Monitoring, Natural Regen (Intermediate) Next Step

Treatments:

Specs:

Acceptable mixed deciduous and conifer trees. Since stand is remote and access will be difficult we are willing to accept any species as regeneration.

adjacent stands regenerated well to jack pine and I suspect the same here. Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

18 41039018-Cut 58.8 42290 - Natural Poletimber 83 51-80 Harvest Clearcut with 429 - Mixed Proposal Even-Aged

Mixed Pine Well Retention **Upland Conifers**

Habitat Cut: No Site Condition:

Prescription Cut all trees except hemlock and oak. Leave some good quality red pine and white pine seed trees where available and located on high ground.

Specs:

Next Step **Treatments:**

Acceptable mixed deciduous and conifer trees. Since stand is remote and access will be difficult we are willing to accept any species as regeneration.

adjacent stands regenerated well to jack pine and I suspect the same here. Regen:

WLD - Retention can be placed along the marsh edge. Old next step comments: Other

Comment:

10/1 /2016 **Proposed Start Date:**

19 41039019-Cut 1.2 6122 - Black Spruce Poletimber 6122 - Black Proposal 83 81-110 Harvest Clearcut with Even-Aged Spruce

Retention

Habitat Cut: No Site Condition:

Prescription Cut all trees except hemlock and oak. Less than 3% retention is acceptable and can be placed along the marsh edge.

Specs:

Next Step **Treatments:**

Acceptable mixed deciduous and conifer trees. Since stand is remote and access will be difficult we are willing to accept any species as regeneration.

Regen: adjacent stands regenerated well to jack pine and I suspect the same here.

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

7.6 42290 - Natural 41039032-Cut Poletimber 64 81-110 Clearcut with 429 - Mixed Harvest Even-Aged Proposal

> Mixed Pine Well Retention **Upland Conifers**

Habitat Cut: No Site Condition:

Prescription Cut all trees except hemlock and oak. Leave some good quality red pine and white pine seed trees where available and located on high ground.

Specs: Retention may be excluded along the marsh edge. Attempt to build road from south during timbersale on high ground to allow for us to scarify

SitePrep, Scarification; Monitoring, Natural Regen (Intermediate) Next Step

Treatments:

Acceptable jack pine, red pine, white pine, black spruce in uplands. mixed conifer and deciduous in lowlands.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016 Stand

Size

Treatment

Name

Compartment: 39

Treatment

Year of Entry: 2017 **Cover Type** Age **Approval** Objective Structure **Status**

Method CoverType Density Age Range Type d 41039033-Cut 42290 - Natural Poletimber 429 - Mixed 33 34.9 64 81-110 Harvest Clearcut with Even-Aged Proposal Mixed Pine Well Retention **Upland Conifers**

BA

Treatment

Habitat Cut: No Site Condition:

Acres

Prescription Cut all trees except hemlock and oak. Leave some good quality red pine and white pine seed trees where available and located on high ground. Retention may be excluded along the marsh edge. Attempt to build road from south during timbersale on high ground to allow for us to scarify Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)

Stand

Treatments:

Acceptable jack pine, red pine, white pine, black spruce in uplands, mixed conifer and deciduous in lowlands.

Regen:

а

n

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

Proposal 41039034-Cut 42210 - Natural Sawtimber 84 4211 - Planted 11.8 81-110 Harvest Clearcut with Even-Aged

Red Pine Well Retention Red Pine

Habitat Cut: No Site Condition:

Prescription Cut all trees, live and dead, that are greater than 2 inches. Possible aerial herbicide applications in future. Buffer creek 100 feet. Less than 3%

Specs: retention is acceptable. VBAR cruise may be needed. Require Chipping

SitePrep, Trenching; Planting, Initial Plant; Pesticide, Aerial; Monitoring, Artificial Regen(1yr) Next Step

Treatments:

Acceptable red pine only

Regen:

Stand could be cut in summer to avoid impacts to trail, however many other jobs currently exist which are winter work along this road system. Other

Evaluate at time of sale and minimize impacts to trail. Stand has had previous attempts at natural red pine regeneration which have all failed. Comment:

Old next step comments:

Proposed Start Date: 10/1 /2016

41039038-Cut 42200 - Natural Sawtimber 91 1-50 Clearcut with 429 - Mixed Harvest Two-Aged Proposal White Pine Retention Medium **Upland Conifers**

Habitat Cut: No Site Condition:

Prescription Remove overstory and leave some pine around the edges of stand. No other retention needed. Protect regeneration. Stand will probably need

VBAR cruising. Specs:

Next Step

Treatments:

Acceptable Mixed coniferous and deciduous trees

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

41039041-Cut 32.5 42390 - Mixed Non- Poletimber 83 81-110 Harvest Clearcut with 429 - Mixed Even-Aged Proposal

Pine Upland Well Retention **Upland Conifers**

Conifers

Habitat Cut: No Site Condition:

Prescription Cut all trees except hemlock, oak, and cedar. Leave good quality red pine and white pine seed trees on firm ground where applicable. Buffer Specs:

creek 100 feet, this will be retention.

WLD Comment: "This harvest will regenerate young conifer with low lying branches, creating excellent cover for snowshoe hare. Regenerating

hardwood browse will bolster food availability within the stand.

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)

Treatments:

Acceptable mixed deciduous and conifer trees

Regen:

Other Stand could be cut in summer to avoid impacts to trail, however many other jobs currently exist which are winter work along this road system.

Evaluate at time of sale and minimize impacts to trail. Old next step comments: Comment:

Proposed Start Date: 10/1 /2016

Shingleton Mgt. Unit Report 4 -- Treatments Compartment: 39 s Year of Entry: 2017 t а **Cover Type Treatment** Acres Stand Size Stand BA **Treatment Treatment** Age **Approval** n Method Objective Density Status d Name CoverType Age Range Type Structure Natural Regen 42 41039042-42220 - Natural Poletimber 1-50 429 - Mixed 1.9 26 Monitoring Even-Aged Proposal Jack Pine **Upland Conifers Monitor** Well (Re-Inventory) **Habitat Cut: Yes Site Condition:** Prescription small fire occurred here a few years ago. monitor to see how stand regenerates Specs: Next Step Planting, Initial Plant; Monitoring, Artificial Regen(1yr) Treatments: Acceptable red pine, jack pine, white pine, aspen Regen:

Total Treatment Acreage Proposed: 243.4

Old next step comments:

10/1 /2024

<u>Other</u>

Comment:

Proposed Start Date:

Report 5 – Site Conditions

Compartment: 39

Shingleton Mgt. Unit

Adam Petrelius : Examiner Year of Entry: 2017

Availa	ability for	Managemer	nt						
Total	Acres	Acres Avail	Acres		Domina	nt Site	e Con	dition	s
Acres	Available	With Condition	Not Available		5C	2G	2H	3Н	3J
449	449	0	0	Aspen					
195	0	0	195	Cedar				195	
22	22	0	0	Herbaceous Openland					
189	187	0	2	Jack Pine			2		
187	187	0	0	Lowland Conifers					
14	0	0	14	Lowland Deciduous					14
39	0	0	39	Lowland Shrub					39
18	1	9	7	Lowland Spruce/Fir	9	7			
935	900	0	36	Marsh					36
137	132	0	5	Natural Mixed Pines			2		3
23	23	0	0	Planted Mixed Pines					
83	76	0	7	Red Pine					7
22	22	0	0	Tamarack					
55	55	0	0	Upland Conifers					
23	17	2	4	White Pine	2				4
2,389	2,069	12	308	Total Forested Acres	12	7	4	195	102
	87%	1%	13%	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.

1 Unavailable 3H: Deer Wintering Areas 195 Unspecified Unspecified Unspecified Comments: 2 Unavailable 3J: Water quality / BMPs 4 Unspecified Unspecified Unspecified Unspecified Unspecified	
2 Unavailable 3J: Water quality / BMPs 4 Unspecified Unspecified Unspecified	Unspecified Unspecified Unspecified Unspecified
· · · · · · · · · · · · · · · · · · ·	Unspecified Unspecified Unspecified Unspecified
Comments:	

Report 5 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment: 39 Year of Entry: 2017

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	47	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
ļ	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	36	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: small stand. too m	uch effort would be needed to ac	cess. m	ay hurt overall value of m	nain sale if included		
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: southern end of sta	and 40 becomes very sparse wit	n barely	merchantable trees. Not	enough top material to lay o	down for equipment to driv	e on.

Report 5 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment: 39 Year of Entry: 2017

9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						

Shingleton Mgt. Unit

Compartment: 039 Year of Entry: 2017

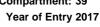


Report 6 - PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* 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
C39 SCA removal	Potential Old Growth		SCA Removal	301
Comments				
Remove SCA that was pr	reviously listed as other SCA and POG			

Shingleton Mgt. Unit Compartment: 39





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.

Conservation Area	Туре	Description	HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	stocked trout populations and those of other colyear to year. Coldwater streams in Michigan type	lved oxygen conditions that allow naturally-reproduced or oldwater fish species (e.g., slimy sculpin) to persist from poically provide these conditions due to substantial ws. Such streams are established by Director's action and er 210.

S t	Shingleton	ո Mgt. Unit		Report 8	- Forested	Stands Compartment: 39 Year of Entry: 2017
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	42220 - Natural Jack Pine	Poletimber Well	17.3	85	81-110	Stand is on contract, two-bridge pine, 41-027-12-01, part of U4. Red pine will be planted on ridges FTP-41-1530, but overall regen will be a mix of current species.
4	42200 - Natural White Pine	Sawtimber Well	3.6	105	81-110	
6	42210 - Natural Red Pine	Sawtimber Well	35.1	84	81-110	
8	6120 - Lowland Cedar	Poletimber Well	195.2	119	111-140	
9	6113 - Lowland Maple	Poletimber Well	13.7	70	81-110	
10	42220 - Natural Jack Pine	Sapling Well	1.6	24	Immature	
11	42290 - Natural Mixed Pine	Sapling Well	5.2	14	Immature	
12	42210 - Natural Red Pine	Sawtimber Well	11.2	100	81-110	
13	42210 - Natural Red Pine	Sawtimber Well	21.2	100	81-110	
14	6121 - Tamarack	Sapling Well	22.3	15	1-50	Harvested with sale number 41-032-97-01 in winter of 2000.
15	42120 - Planted Jack Pine	Sapling Poor	33.2	14	Immature	2009 regen counts: 660 jack pine, 17 red pine, 8 white pine, 150 black spruce
16	42220 - Natural Jack Pine	Poletimber Well	1.6	83	81-110	
17	42220 - Natural Jack Pine	Poletimber Well	2.7	83	81-110	
18	42290 - Natural Mixed Pine	Poletimber Well	58.8	83	51-80	
19	6122 - Black Spruce	Poletimber Well	1.2	83	81-110	
20	42290 - Natural Mixed Pine	Poletimber Well	2.2	83	81-110	
22	4133 - Aspen, Mixed Pine	Sapling Well	54.9	24	1-50	
23	4133 - Aspen, Mixed Pine	Sapling Well	2.5	24	1-50	

S t	Shingleto	n Mgt. Unit		Report 8 – Forested		Stands Compartment: 39 Year of Entry: 2017
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	6125 - Lowland Black Spruce, Jack Pine	Sapling Well	186.7	25	1-50	
26	4133 - Aspen, Mixed Pine	Sapling Well	302.6	24	1-50	
28	4133 - Aspen, Mixed Pine	Sapling Well	8.7	24	1-50	
29	4133 - Aspen, Mixed Pine	Sapling Well	24.1	24	1-50	
30	4133 - Aspen, Mixed Pine	Sapling Well	55.8	24	1-50	
32	42290 - Natural Mixed Pine	Poletimber Well	7.6	64	81-110	
33	42290 - Natural Mixed Pine	Poletimber Well	34.9	64	81-110	
34	42210 - Natural Red Pine	Sawtimber Well	15.4	84	81-110	previous harvests have resulted in no regeneration of red pine.
36	42200 - Natural White Pine	Sawtimber Medium	11.6	89	1-50	Stand was cut with RP Sale in 2010. residual basal areas - 11 red pine, 29 white pine
37	42220 - Natural Jack Pine	Sapling Well	44.7	16	1-50	Scarification completed in 1999.
38	42200 - Natural White Pine	Sawtimber Medium	5.2	91	1-50	Stand was cut with RP sale in spring 2010. Residual basal areas were 10 red pine, 20 white pine
40	6122 - Black Spruce	Poletimber Well	16.5	85	81-110	
41	42390 - Mixed Non- Pine Upland Conifers	Poletimber Well	32.5	83	81-110	
42	42220 - Natural Jack Pine	Poletimber Well	71.9	26	1-50	a small fire killed a couple acres of trees in this stand recently.
43	42220 - Natural Jack Pine	Poletimber Well	15.9	43	51-80	
44	42140 - Planted Mixed Pine	Sapling Well	22.6	16	Immature	2002 regen counts showed 369 red pine and 104 jack pine
45	42290 - Natural Mixed Pine	Sapling Well	28.0	25	1-50	

S t a n d	Shingleton		Report 8	Forested	Stands Compartment: 39 Year of Entry: 2017	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	429 - Mixed Upland Conifers	Sapling Well	22.8	12	1-50	7 acres of this stand were trenched and seeded in summer 2002. Regen count in 2005 was 180 jack pine, 170 red pine, 230 white pine, 230 black spruce, 510 fir, and 400 red maple. Overall stand is diverse and many mixed species.
47	42200 - Natural White Pine	Sawtimber Well	2.5	85	51-80	

Compartment: 39 Year of Entry: 2017



Stand	Cover Type	Acres	Managed Site	General Comments:
1	310 - Herbaceous Openland	3.2		Cut with RP Sale. Stand was supposed to be planted, but was scarified instead and failed.
3	310 - Herbaceous Openland	7.5		Cut with RP Sale. Stand was supposed to be planted, but was scarified instead and failed.
5	6229 - Mixed lowland shrub	38.8	No	
7	6239 - Mixed Emergent Wetland	35.6	No	
21	6239 - Mixed Emergent Wetland	73.6	No	
25	6239 - Mixed Emergent Wetland	13.4	No	
27	310 - Herbaceous Openland	10.8	No	
31	6239 - Mixed Emergent Wetland	3.6	No	
35	6239 - Mixed Emergent Wetland	1.6	No	
50	6239 - Mixed Emergent Wetland	807.3	No	