

Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41031 Entry Year 2018 Acreage: 2,389

County Schoolcraft

Management Area: Seney Manistique Swamp

Revision Date: 2016-08-31 Stand Examiner: Tori Irving

Legal Description:

T44N R15W Sections 21-23, 28

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 the Seney Lake Plain Subsection under Cleland's Ecological Land Classification System which is being used in the Eastern Upper Peninsula Eco-Regional Planning Process.

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

Ownership within the compartment is mostly a contiguous block of State land; however there is a minor component of private fragmentation, including corporate land. The private land is either forest or marsh and it is currently used mainly for hunting. The Seney National Wildlife Refuge lies directly east of the compartment.

Unique Natural Features:

Currently under review by Michigan Natural Features Inventory (MNFI).

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

This compartment includes an Ecological Reference Area (ERA). ERA's are designated by Michigan Natural Resources Inventory (MNFI) and are high quality examples of functioning ecosystems that are primarily influenced by ecological processes. In this case the designation is for a Patterened Fen.

Watershed and Fisheries Considerations:

Duck Creek is found within this compartment and is classified as warm-water. Standard BMP's should be implemented to control sediment sources from adjacent uplands. Fine sediments such as silt and sand negatively affect natural reproduction of fish, decrease the diversity of aquatic invertebrate and fish taxa, and result in lower overall fish populations.

Wildlife Habitat Considerations:

This compartment lies with the larger marsh/low pine ridge complex of Schoolcraft County. Surveyor notes showed the pre-settlement vegetation within the wetland to be a mixture of open grassy marsh and tamarack/black spruce swamp. The ridges were fairly well dominated by conifers including hemlock, white pine, red pine and, to a lesser extent, jack pine. The deciduous species recorded included beech, red maple, sugar maple, white birch and aspen. Current conditions show the marshes to be fairly well intact. However, the dominant tree species on the ridges has shift to jack pine. The wildlife habitat management goals in this compartment include providing travel corridors, protecting the remaining closed canopy hemlock stands, and enhancing the early successional conifer habitat for potential use by species such as Kirtland's warbler. Additionally, the clearcut areas will be temporally usable by openland species. Variable retention principles will be utilized to enhance species and structural diversity within and between stands. This compartment lies within the Seney/Manistique Swamp Management Area and the featured species within this MA are American 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 (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Ordovician Stonington Formation and Utica Shale subcrop below the glacial drift. The Stonington could be used for stone. 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:

Access to the compartment is limited to the Highwater Truck Trail which is the only road running through the compartment. The Highwater Truck Trail is also a snowmobile trail. The lands east of Duck Creek were roaded following the Seney Fire of 1976 for salvage operations. Since that time the roads have grown over and the bridge crossing Duck creek has dilapidated.

Survey Needs:

None needed at this time.

Recreational Facilities and Opportunities:

The Highwater Truck Trail is a snowmobile trail and is the only recreational facility in the compartment. The other recreational opportunities include hunting, fishing and trapping. Duck Creek is considered warm water therefore fishing opportunities are limited but it does have a fair amount of beaver activity for trapping. Due to the lack of roads in the compartment there is good potential for remote deer and bear hunting. The area does receive a fair amount of dispersed camping during the firearm deer season.

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 theses 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. As mentioned earlier the area east of Duck Creek burned in 1976 during the great Seney Fire which was caused by a lightning strike and burned for over a month.

Additional Compartment Information:

The following reports from the Inventory are attached:

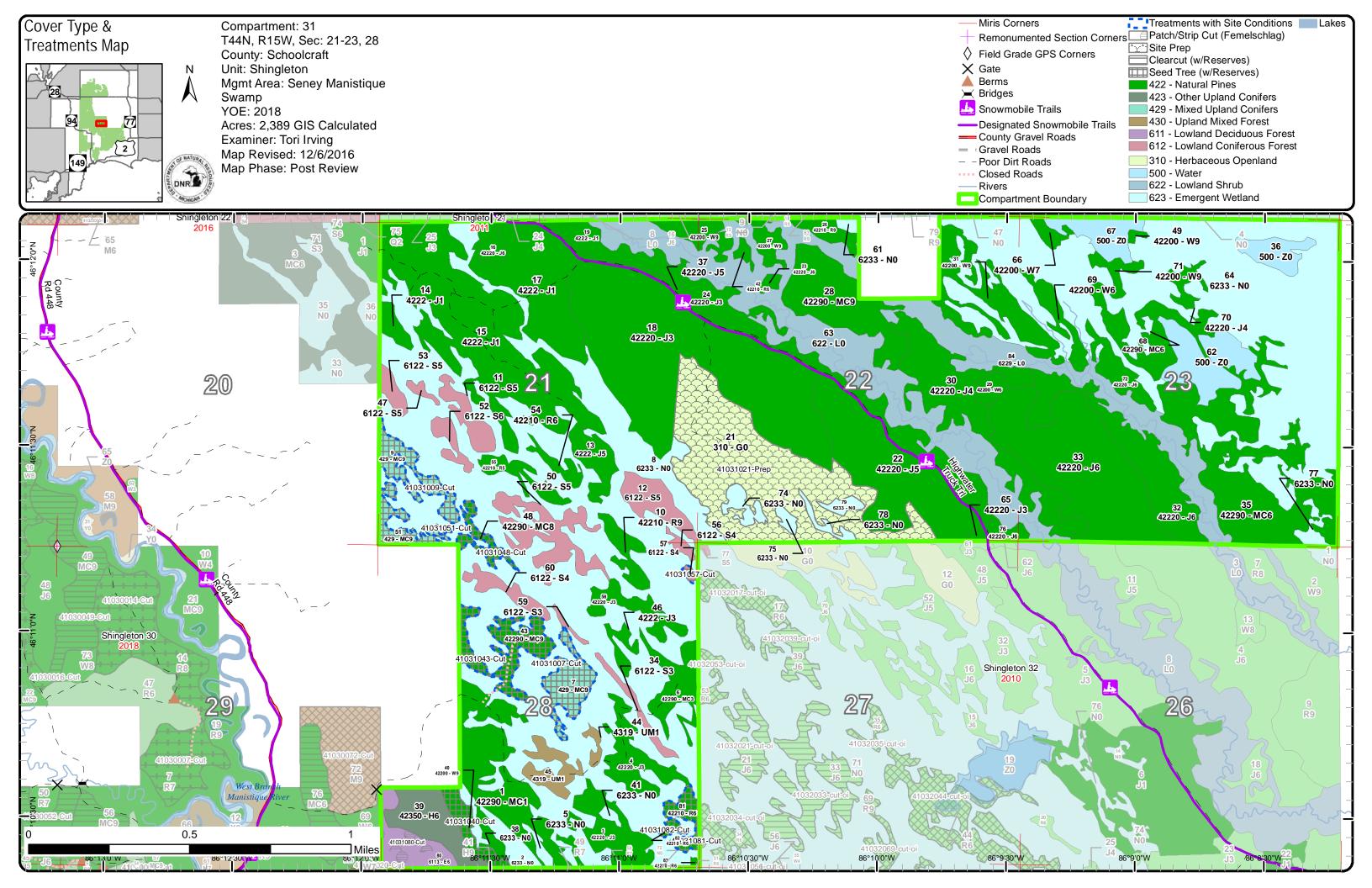
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

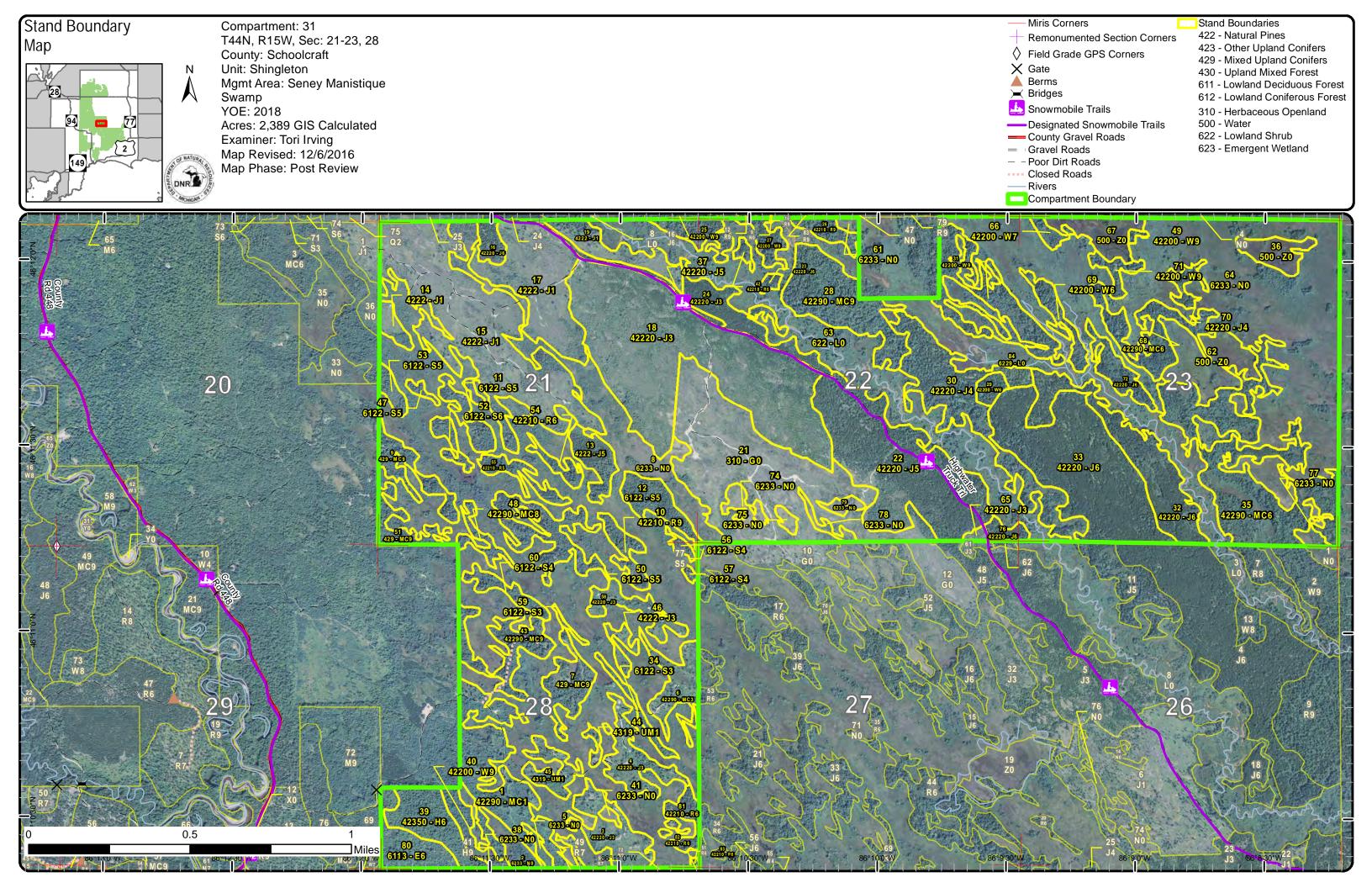
The following information is displayed, where pertinent, on the attached compartment maps:

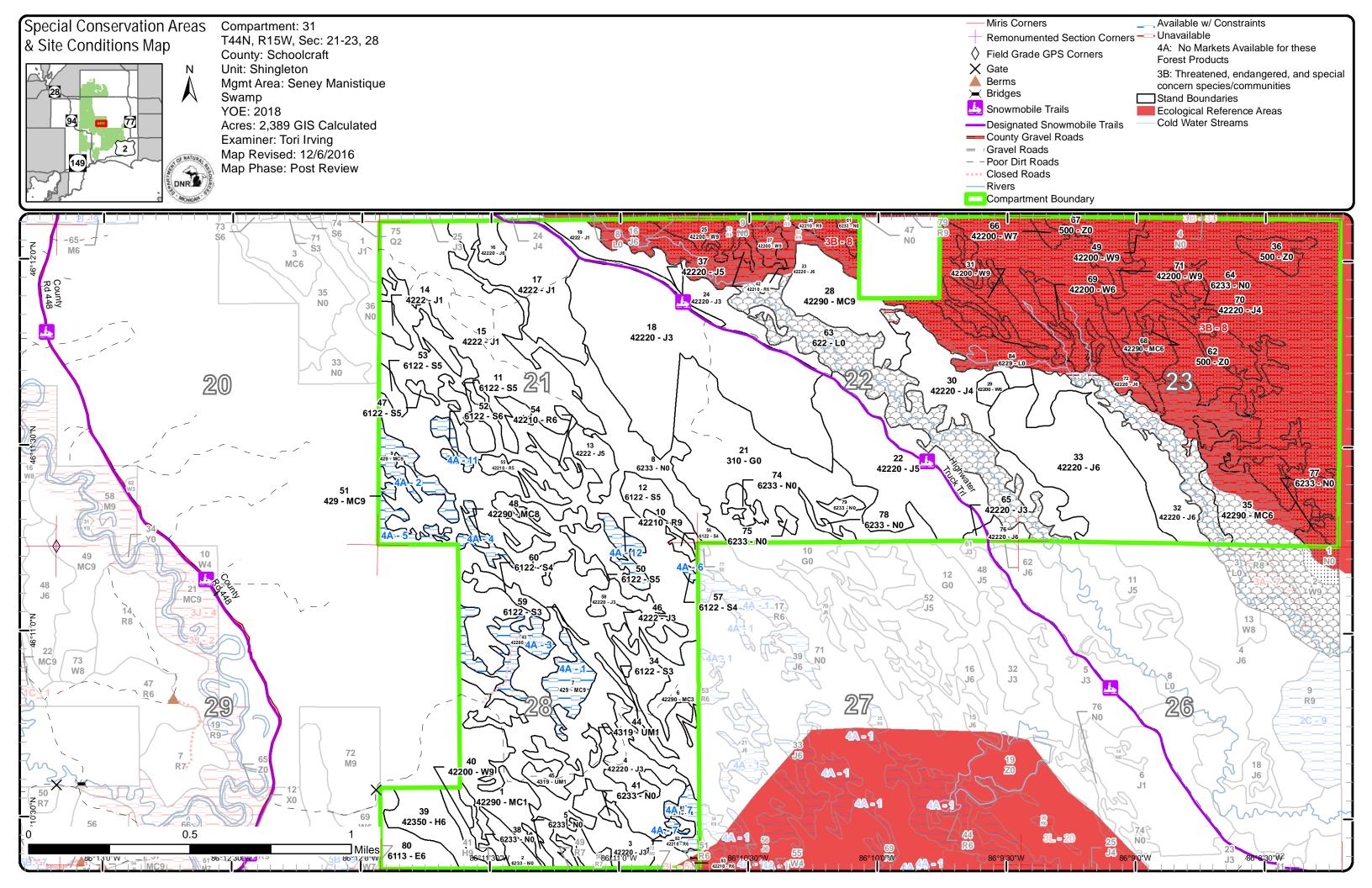
Base feature information, stand boundaries, cover types, and numbers Proposed treatments

Site condition boundaries

Details on the road access system







Shingleton Mgt. Unit

Compartment 31 Year of Entry 2018



Tori Irving: Examiner

Age Class

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Hemlock	0	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	22
Herbaceous Openland	116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116
Jack Pine	0	184	212	21	0	263	59	0	0	2	0	0	0	0	0	0	0	0	741
Lowland Deciduous	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	17
Lowland Shrub	187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	187
Lowland Spruce/Fir	0	0	0	0	0	8	51	0	9	6	0	0	0	0	0	0	0	0	74
Marsh	764	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	764
Natural Mixed Pines	0	0	17	0	0	110	0	0	0	0	20	6	40	0	0	0	0	50	243
Red Pine	0	0	0	0	0	8	14	0	0	0	9	2	7	0	0	0	0	0	40
Upland Conifers	0	0	0	0	0	0	0	0	0	10	28	0	0	0	0	0	0	0	38
Upland Mixed Forest	0	0	10	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	12
Water	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
White Pine	0	0	0	0	0	0	5	0	16	0	32	31	0	0	0	0	0	0	82
Total	1120	184	239	21	0	389	129	0	42	20	89	61	47	0	0	0	0	50	2389



Report 2 – Treatment Summary

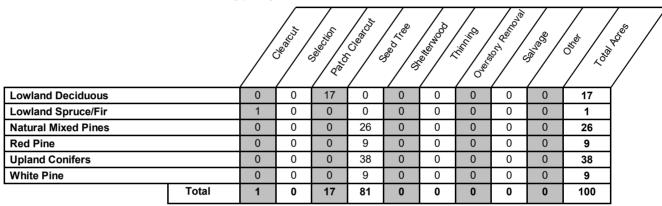
Shingleton Mgt. Unit Year of Entry: 2018

Acres of Harvest

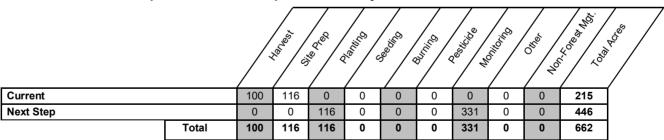
Compartment 31
Total Compartment Acres: 2,389

Commercial Harvest - 26 Harvests with Site Condition - 73 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Sawtimber

Well

95

Report 3 -- Treatments

Draft Field

Boundary

Compartment: 31

Even-Aged

429 - Mixed

Upland Conifers

Year of Entry: 2018 **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type Approval** Age Method Objective Name Structure Status CoverType Density Age Range Type

Harvest

Seed Tree with

Retention

Habitat Cut: No Site Condition: No Markets

14.9 429 - Mixed Upland

Conifers

Prescription Seed tree the stand. Cut all species except the red and white pine. Leave enough scattered red and white pine to provide seed and protection for

81-110

future regeneration. Specs:

41031007-Cut

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

s

t а

n

d

Acceptable A mix of current species found on site.

Regen: Other Comment:

Proposed Start Date: 10/01/2017

41031009-Cut 13.1 429 - Mixed Upland Sawtimber 95 81-110 Seed Tree 429 - Mixed Draft Field Harvest Even-Aged Conifers Well **Upland Conifers** Boundary

Habitat Cut: No Site Condition: No Markets

Prescription Seed tree the stand. Cut all species except the red and white pine. Leave enough scattered red and white pine to provide seed and protection for

Specs: future regeneration.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mix of species currently found on site.

Regen:

Other Comment:

10/01/2017 **Proposed Start Date:**

41031021-115.6 310 - Herbaceous 42120 - Planted Draft Field Nonstocked 0 Unspec SitePrep Trenching Even-Aged Prep Openland ified Jack Pine Boundary

Habitat Cut: No Site Condition:

Prescription Trench and plant jack pine in all accessible areas.

Specs:

Next Step Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

<u>Acceptable</u> Jack pine and black spruce.

Regen:

Other Comment:

Proposed Start Date: 10/01/2017

41031040-Cut 42200 - Natural 4220 - Natural 8.8 100 51-80 Seed Tree with Draft Field Sawtimber Even-Aged Harvest White Pine Well Retention White Pine Boundary

Habitat Cut: No

Manage the stand to perpetuate white pine. Green tree some scattered white pine and some super canopy trees. Do not cut hemlock and oak. Stand **Prescription**

Specs: will need some survey work. Treat this stand with the adjacent compartment.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mix of species currently found on-site

Regen:

Other To access the stand, a road will need to be built across stand 39. Cross at the narrowest point in the stand, which is located at the southern end.

Comment:

Proposed Start Date: 10/01/2017

Shinaleton Mat. Unit Report 3 -- Treatments Compartment: 31 s Year of Entry: 2018 t а **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type Approval** n Age Method Objective Status Name Structure d CoverType Density Age Range Type 41031043-Cut 42290 - Natural 43 19.8 Sawtimber 96 81-110 Harvest Seed Tree 429 - Mixed Even-Aged Draft Field Mixed Pine **Upland Conifers** Well Boundary **Habitat Cut: No** Site Condition: No Markets Prescription Seed tree the stand. Cut all species except the red and white pine. Leave enough scattered red and white pine to provide seed and protection for future regeneration. Do not cut any oak. Specs: Next Step Monitoring, Natural Regen (Re-Inventory) **Treatments:** Acceptable A mix of species currently found on site. Regen: Other Comment: **Proposed Start Date:** 10/01/2017 48 41031048-Cut 6 1 42290 - Natural Sawtimber 100 51-80 Harvest Seed Tree with 429 - Mixed Draft Field Even-Aged Mixed Pine Medium Retention **Upland Conifers** Boundary Site Condition: No Markets **Habitat Cut: No** Prescription Seed tree the stand. Cut all species except the red and white pine. Leave enough scattered red and white pine to provide seed and protection for Specs: future regeneration. Next Step Monitoring, Natural Regen (Re-Inventory) **Treatments:** Acceptable A mix of species currently found on site. Regen: **Other** Comment: 10/01/2017 **Proposed Start Date:** 10.0 429 - Mixed Upland Sawtimber 41031051-Cut 85 81-110 Seed Tree with Draft Field Harvest 429 - Mixed Even-Aged Conifers Well Retention **Upland Conifers** Boundary **Habitat Cut: No Site Condition:** No Markets Prescription Seed tree the stand. Cut all species except the red and white pine. Leave enough scattered red and white pine to provide seed and protection for Specs: future regeneration. Monitoring, Natural Regen (Re-Inventory) Next Step Treatments: Acceptable A mix of species currently found on site. Regen:

Other Comment:

Proposed Start Date: 10/01/2017

41031057-Cut 1.0 6122 - Black Spruce Poletimber 84 1-50 Harvest Clearcut 6122 - Black Even-Aged Draft Field Poor Spruce Boundary

Habitat Cut: No Site Condition: No Markets

Prescription Cut all species. No retention due to small stand size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mix of species currently found on site.

Regen:

Other Comment:

Proposed Start Date: 10/01/2017

Acceptable A mix of species currently found on site.

Other Comment:

Proposed Start Date: 10/01/2017

41032010-22.6 310 - Herbaceous 42120 - Planted Nonstocked Unspec SitePrep Trenching Even-Aged Draft Proposal Openland Prep ified Jack Pine

Habitat Cut: No Site Condition:

Prescription Trench and plant jack pine in all accessible areas.

Specs:

Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Next Step **Treatments:**

<u>Acceptable</u> Jack pine and black spruce.

Regen:

Other Comment:

Proposed Start Date: 10/01/2017

Shingleton Mgt. Unit Report 3 -- Treatments Compartment: 32 s Year of Entry: 2010 t а **Treatment** BA **Treatment Treatment Cover Type** Acres Stand Size Stand Age **Approval** n Name CoverType Density Method Objective Structure Status Age Range Type d 12 41032012-17.1 310 - Herbaceous Nonstocked 0 Unspec SitePrep Trenching 4212 - Planted Even-Aged Draft Proposal Openland ified Jack Pine Prep **Habitat Cut: No Site Condition:** <u>Prescription</u> Trench and plant jack pine on the ridges of the stand. Specs: Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) Next Step Treatments:

Acceptable Jack pine and black spruce

Regen:
Other
Comment:

Proposed Start Date: 10/01/2009

Total Treatment Acreage Proposed: 254.9

Shingleton Mgt. Unit

Tori Irving : Examiner

Compartment: 31
Year of Entry: 2018

Availability for Management Total Acres Acres Available With Condition Not Available Acres Available With Condition Not Available

Acres	Available	With Condition	Not Available		<i>4A</i>	3B
22	22	0	0	Hemlock		
116	116	0	0	Herbaceous Openland		
741	724	0	16	Jack Pine		16
17	17	0	0	Lowland Deciduous		
187	111	0	76	Lowland Shrub		76
74	68	6	0	Lowland Spruce/Fir	6	
764	474	0	289	Marsh		289
244	125	26	93	Natural Mixed Pines	26	93
40	13	18	9	Red Pine	18	9
38	0	38	0	Upland Conifers	38	
12	12	0	0	Upland Mixed Forest		
53	0	0	53	Water		53
82	13	0	69	White Pine		69
2,389	1,696	88	605	Total Forested Acres	88	605
	71%	4%	25%	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.

Available	4A: No Markets Available for these Forest Products	15	2E: Road needed			
			ZE. Noad Heeded	Unspecified	Unspecified	Unspecified
Comments: Stand was set up a	s part of Tatrow's Marsh Sale a	# 41-007 13	7-10-01. The sale never so	old and went no-bid three t	ilmes. Unspecified	Unspecified
	for these Forest Products		<u> </u>	<u> </u>	· 	<u> </u>
Comments:	s part of Tatrow's Marsh Sale					

Report 4 – Site Conditions

Shingleton Mgt. Unit

Tori Irving : Examiner

3	Available	4A: No Markets Available for these Forest Products	20	2E: Road needed	Unspecified	Unspecified	Unspecified
	Comments: Stand was set up a	as part of Tatrow's Marsh Sale #	‡ 41-007	7-10-01. The sale never so	ld and went no-bid three tir	mes.	
4	Available	4A: No Markets Available for these Forest Products	6	2E: Road needed	Unspecified	Unspecified	Unspecified
	Comments:						
5	Available	4A: No Markets Available for these Forest Products	10	2E: Road needed	Unspecified	Unspecified	Unspecified
	Comments: Stand was set up a	as part of Tatrow's Marsh Sale #	‡ 41-007	7-10-01. The sale never so	ld and went no-bid three tir	mes.	
6	Available	4A: No Markets Available for these Forest Products	1	2E: Road needed	Unspecified	Unspecified	Unspecified
	Comments: Stand was set up a	as part of Tatrow's Marsh Sale #	‡ 41-007	7-10-01. The sale never so	ld and went no-bid three tir	mes.	
7	Available	4A: No Markets Available for these Forest Products	9	2E: Road needed	Unspecified	Unspecified	Unspecified
	Comments: Stands are part of	Tatrow's Marsh Sale #41-007-1	0-01. T	he sale has gone 'No Bid' t	three times.		
8	Unavailable	3B: Threatened, endangered, and special concern species/communities	605	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

Report 4 – Site Conditions

Shingleton Mgt. Unit
Tori Irving: Examiner

11	Available	4A: No Markets Available for these Forest Products	5	2E: Road needed	Unspecified	Unspecified	Unspecified					
_	Comments: Area adjacent to this stand was set up for sale and went 'No Bid' three times.											
12	Available	4A: No Markets Available for these Forest Products	9	2E: Road needed	Unspecified	Unspecified	Unspecified					
_	comments:	nis stand was set up for sale but	went 'N	No Bid' three times.								

Shingleton Mgt. Unit Compartment: 031 Year of Entry: 2018



Report 5 - PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
	Potential Old Growth		SCA Removal	1
Comments sliver along ERA bound	dary, does not meet current SCA criteria			
	Potential Old Growth		SCA Removal	4
Comments sliver along ERA bound	dary, does not meet current SCA criteria			
	Potential Old Growth		SCA Removal	5
Comments Outside of ERA, does r	not meet current SCA criteria.			
	Potential Old Growth		SCA Removal	91
Comments Outside of the ERA box	undary, does not meet current SCA criteria.			
	Potential Old Growth		SCA Removal	109
Comments Outside of ERA bounda	ary. Doesn't meet current SCA criteria.			

Shingleton Mgt. Unit Compartment: 31
Year of Entry 2018



Report 6 - EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

Conservation Type Area	pe Description	HCVA = High Conservation Value Area SCA = Special Conservation Area
ERA Ecolog Referenc	e Areas identified as Element Occurrences (EOs) I context of their natural community classific (Excellent) or B (Good) and a Global (G) of threatened (2), or rare (3) serve as an inition the State. The system is comprised of indifferent managed for restoration and maintenance	gh quality examples of natural communities that have been by the Michigan Natural Features Inventory (MNFI) within the sation system. Element Occurrences with viability ranks of A r State (S) element (rarity) ranking of endangered (1), all base of ERAs. They may be located upon any ownership in vidual or associations of natural community types that are of natural ecological processes and values. The public may as using the DNR Conservation Area Recommendation Form.

s t	Shingleton	Shingleton Mgt. Unit			– Forested	Stands Compartment: 31 Year of Entry: 2018
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42290 - Natural Mixed Pine	Sapling Poor	50.2	14	1-50	Stand was cut during the winters of 1998 and 2002. Stand is regenerating to mostly white pine with some red pine and also some scattered oak. The regeneration is very thick in some areas.
3	42220 - Natural Jack Pine	Sapling Well	20.7	14	Immature	
4	42220 - Natural Jack Pine	Sapling Well	17.7	14	Immature	
6	42290 - Natural Mixed Pine	Sapling Well	16.8	14	Immature	Stand was cut during the winters of 1998 and 2002.
7	429 - Mixed Upland Conifers	Sawtimber Well	14.9	95	81-110	Stand was part of sale number 41-007-10, Tatrow's Marsh Sale. The sale was offered and went no bid three times.
9	429 - Mixed Upland Conifers	Sawtimber Well	13.1	95	81-110	
10	42210 - Natural Red Pine	Sawtimber Well	9.1	96	81-110	
11	6122 - Black Spruce	Poletimber Medium	8.8	76	51-80	East side of stand was cut in the 60's and has regenerated well, west side is mature.
12	6122 - Black Spruce	Poletimber Medium	13.7	51	1-50	Stand was cut through in the 60s. However, it was not very thorough, more like a salvage cut resulting in pockets of mature trees bieng left. Majority of the stand is younger spruce.
13	4222 - Natural Jack Pine	Poletimber Medium	11.7	50	1-50	Stand was cut in the 60's however it was not real thorough so there are older residual pockets. Spruce is throughout and the pine is thicker on the south end.
14	4222 - Natural Jack Pine	Sapling Poor	5.1	5	1-50	OPIC - FMD: South end of stand was cut through in 60's if stand is prepared lop south end off. The north end was not cut through in 60's and jack pine is over-mature. Leave some red and white pine for seed. Soils are Neconish-Kinross-Wainola Complex and the Habitat type is PVE. Retention will be met by leaving red pine and white pine as well as the exclusions of spruce on the fringes.
						[9/22/08 BB] Stand is now on proposal 19-08-01 Lots a Line Pine Actual Stand acres = 4 [1/17/2012 TSI] Sale # 41-019-08-01 Lots Line Pine was closed on 11/21/2011 (2/2/15 AP) Stand was scarified and has passed regeneration counts in 2015. 909 jack pine, 411 black spruce, and 75 white
						on 11/21/2011 (2/2/15 AP) Stand was scarified and has passed

s t	Shingleton	ı Mgt. Unit		Report 7	Forested	Stands Compartment: 31 Year of Entry: 2018
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	4222 - Natural Jack Pine	Sapling Poor	112.8	5	1-50	[1/8/07 BB] As agreed at the compartment review, in addition to scarifying the stand after it is cut plant acorns on the knobs.
						[9/22/08 BB] Stand is now on proposal 19-08-01 Lots a Line Pine Residual BA = Red Pine 3 sq ft, White Pine scattered
						(11/24/2011 AP) Stand was scarified in summer of 2011. Regen count to occur in 2015. Units 1,2,3 were scarified in 2011, Units 4, 5, 6 were done in 2010.
						[1/17/2012 TSI] Sale #41-019-08-01 Lots A Line Pine was closed on 11/21/2011. (2/2/15 AP) Stand was scarified and has passed regeneration counts in 2015. 909 jack pine, 411 black spruce, and 75 white pine. FTP 1381 is closed. Possible work under wildlife FTP for oak planting remains.
16	42220 - Natural Jack Pine	Poletimber Well	6.0	45	1-50	
17	4222 - Natural Jack Pine	Sapling Poor	50.0	6	1-50	[1/8/07 BB] As agreed at the compartment review, in addition to scarifying the stand after it is cut plant acorns on the knobs. [9/22/08 BB] Stand is now on proposal 19-08-01 Lots a Line Pine Residual BA = Red Pine 1 sq ft
						(9/15/2010 AP) Stand scarified summer 2010. Regen count scheduled 2014. Only upland portions of Units 4,5,6 were completed, 54 acres total.
						[1/17/2012 TSI] Sale #41-019-08-01 Lots A Line Pine was closed on 11/21/2011.
18	42220 - Natural Jack Pine	Sapling Well	155.5	16	Immature	This stand was cut as part of the Broken Compass sale. Twenty five acres of it was scarified in September 2000.
19	4222 - Natural Jack Pine	Sapling Poor	16.4	6	Immature	OPIC - FMD: Stand has some drainages that will need to be protected as well as proper river buffers. Red and white pine are present but not showing up on plots as a large component, leave most of near the creek buffer to provide diversity. Stand could hold if needed. Soils are Kinross-Augres-Rubicon Complex and habitat type is PArV. Retention will be met by leaving the red and white pine.
						[9/22/08 BB] Stand is now on proposal 19-08-01 Lots a Line Pine Residual BA = Red Pine 6 sq ft, White Pine 4 sq ft
						(9/15/2010 AP) Stand scarified summer 2010. Regen count scheduled 2014. Only upland portions of Units 4,5,6 were completed, 54 acres total.
						[1/17/2012 TSI] Sale #41-019-11-01 Lots A Line Pine was closed 11/21/2011
						(2/2/15 AP) Stand was scarified and has passed regeneration counts in 2015. 909 jack pine, 411 black spruce, and 75 white pine. FTP 1381 is closed. Possible work under wildlife FTP for oak planting remains.
22	42220 - Natural Jack Pine	Poletimber Medium	90.8	41	1-50	Stand underwent a shelterwood cut from 1959-1961. Little natural seeding occurred so stand was disked and seeded in 1970. The remaining jack pine was removed in 1971. Nice jack pine which is transitioning to poles nicely.

S t	Shingleto	Shingleton Mgt. Unit			- Forested	Stands Compartment: 31 Year of Entry: 2018
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	42220 - Natural Jack Pine	Poletimber Well	1.9	81	51-80	
24	42220 - Natural Jack Pine	Sapling Well	20.9	26	Immature	Stand was cut in 1990 as part of the North Duck Sale.
25	42200 - Natural White Pine	Sawtimber Well	10.6	102	51-80	Stand could be treated with compartment 21 stand 16 to north but that stand was dropped at the last compartment review due to poor access and no markets for charred wood. The Seney fire bumped up to some of these stands. Access from east is across multiple creeks.
26	42210 - Natural Red Pine	Sawtimber Well	7.1	110	81-110	Stand was originally cut after Seney Fire but not heavy enough. Regen is a mix of white pine and advanced E. Pine near the fringes has now died and again will likely not warrant the cost of a bridge. This is not enough wood to tie up one of the department's portable bridges. White pine will do ok with the amount of shade present. Stand was prepared in 1998, 2 Chains Short Sale but was never cut because the purchaser was responsible for installing a portable bridge across Duck Creek. [1/8/07 BB] The cut was dropped at the compartment review because of the potential negative impacts to the patterned fen.
27	42200 - Natural White Pine	Sawtimber Well	7.1	102	51-80	Much of the stand was salvaged after Seney Fire. There is at least one major stream crossing to get to stand. Many of the trees are water stressed and or killed by beaver.
28	42290 - Natural Mixed Pine	Sawtimber Well	40.2	110	81-110	Stand was prepared in 1998, 2 Chains Short Sale but was never cut because the purchaser was responsible for installing a portable bridge across Duck Creek. Stand was originally cut after Seney Fire but not heavy enough. Regen is a mix of white pine and advanced E. Pine near the fringes has now died and again will likely not warrant the cost of a bridge. This is not enough wood to tie up one of the department's portable bridges. White pine will do ok with the amount of shade present.
29	42200 - Natural White Pine	Poletimber Well	4.5	58	111-140	
30	42220 - Natural Jack Pine	Poletimber Poor	55.1	40	1-50	
31	42200 - Natural White Pine	Sawtimber Well	31.5	91	81-110	
32	42220 - Natural Jack Pine	Poletimber Well	42.5	56	51-80	
33	42220 - Natural Jack Pine	Poletimber Well	88.9	40	1-50	
34	6122 - Black Spruce	Sapling Well	5.0	41	Unspecified	

s t	Shingleton	Shingleton Mgt. Unit			– Forested	Stands Compartment: 31 Year of Entry: 2018
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
35	42290 - Natural Mixed Pine	Poletimber Well	87.2	40	1-50	Also large block of old growth blocks in well with Seney National Wildlife Refuge. Stand was burned through and salvaged after Seney Fire. There is a lot of residual red pine logs that are surving as mother trees. Regen is all over the board including re pine, white pine, spruce, tamarack, jack pine, hardwood and aspen. There are also some small pockets of mature trees not cut in the 70's. Soils are Rubicon Croswell Deford Complex and the Habitat type is PVE.
37	42220 - Natural Jack Pine	Poletimber Medium	6.1	41	1-50	Stand originated during Seney Fire when a fuel break was put in for a control line along the Highwater Truck Trail. Stand regenerated very well and is transitioning nicely to poles.
39	42350 - Upland Hemlock	Poletimber Well	21.6	100	141-170	
40	42200 - Natural White Pine	Sawtimber Well	8.8	100	51-80	
42	42210 - Natural Red Pine	Poletimber Well	2.0	102	81-110	
43	42290 - Natural Mixed Pine	Sawtimber Well	19.8	96	81-110	Stand was set up under sale #41-007-10, Tatrow's Marsh Sale. The sale never sold and went 'no-bid' three times.
44	4319 - Mixed Upland Forest	Sapling Poor	2.1	85	1-50	Stand was cut during the winters of 1998 and 2002. There is decent regeneration of white pine and some red pine. The regeneration is very tick in some areas.
45	4319 - Mixed Upland Forest	Sapling Poor	10.2	14	1-50	Stand was cut as during the winters of 1998 and 2002. The stand is regenerating to mostly white pine and some red pine. The regeneration is very thick in some areas.
46	4222 - Natural Jack Pine	Sapling Well	4.5	14	Immature	[1/17/03 BB] Stand was cut between the winters of 1998 and 2002, Original cultural codes called for scarification but due to the location and residual trees left a regen count will be conducted in the summer of 2004 to determine stocking.
						[8/11/06 BB] Stand was never counted. New Stand Comments: Stand has patchy residual overstory thicker in some areas. Manage for the understory, walk through regen plots indicate a decent amount of jack, red and white pine regen much the same as it was originally. There is also a good amount of spruce, oak and aspen regen. Oak is regenerating from the residual trees in the stand. Appx 800 tpa of conifer spp with the most in jack pine. Red pine is regenerating very well along the old roads and landings.
47	6122 - Black Spruce	Poletimber Medium	1.8	51	51-80	Stand was cut in the 60s but it was more of a salvage cut since it wasn't thorough.
48	42290 - Natural Mixed Pine	Sawtimber Medium	6.1	100	51-80	Stand was set up under sale #41-007-10, Tatrow's Marsh Sale. The sale never sold and went 'no-bid' three times.
49	42200 - Natural White Pine	Sawtimber Well	1.0	72	51-80	Stand was burned through but not cut or salvaged due to very poor access.

S t	Shingleto	Shingleton Mgt. Unit			- Forested	Stands Compartment: 31 Year of Entry: 2018
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
50	6122 - Black Spruce	Poletimber Medium	23.2	52	1-50	OPIC - FMD: Stand was partially cut through in the 60's which led to this two aged stand. There is some tamarck on lower ground that is over mature.
51	429 - Mixed Upland Conifers	Sawtimber Well	10.0	85	81-110	Stand was set up under sale #41-007-10, Tatrow's Marsh Sale. The sale never sold and went 'no-bid' three times.
52	6122 - Black Spruce	Poletimber Well	5.2	87	81-110	OPIC - FMD: Soils are Markey Mucky Peat
53	6122 - Black Spruce	Poletimber Medium	4.7	52	51-80	OPIC - FMD: Stand was partially cut in the 60s resulting in this two aged stand, managing for the younger age class.
54	42210 - Natural Red Pine	Poletimber Well	4.7	51	51-80	OPIC - FMD: Stand was cut through in the 60's, likely a diameter limit cut. Stand is now two aged, manage for the understory of Spruce, White pine and jack pine.
55	42210 - Natural Red Pine	Poletimber Medium	8.2	46	51-80	
56	6122 - Black Spruce	Poletimber Poor	2.1	48	1-50	Stand was cut through in the 60's, lots of spruce and tamarack regen.
57	6122 - Black Spruce	Poletimber Poor	1.0	84	1-50	Stand was cut through in the 60s, lots of spruce and tamarack regen.
58	42220 - Natural Jack Pine	Sapling Well	11.6	14	Immature	[1/17/03 BB] Stand was cut between the winters of 1998 and 2002, Original cultural codes called for scarification but due to the location and residual trees left a regen count will be conducted in the summer of 2004 to determine stocking.
						[8/11/06 BB] Stand was never counted. New Stand Comments: Stand has patchy residual overstory thicker in some areas. Manage for the understory, walk through regen plots indicate a decent amount of jack, red and white pine regen much the same as it was originally. There is also a good amount of spruce, oak and aspen regen. Oak is regenerating from the residual trees in the stand. Appx 800 tpa of conifer spp with the most in jack pine. Red pine is regenerating very well along the old roads and landings.
59	6122 - Black Spruce	Sapling Well	1.2	41	Unspecified	Stand was cut in 70s as the Marsh Ridge Block, it was an R9 stand at the time and was cut due to windthrow concerns. Regenerating good to a mix of species including red pine, spruce, tamarack, white pine and aspen but predominately spruce.
60	6122 - Black Spruce	Poletimber Poor	7.7	50	1-50	The stand was cut through in the 60's leaving a two aged stand behind. Spruce is coming along nicely and red pine logs look good.
65	42220 - Natural Jack Pine	Sapling Well	1.6	16	Immature	Stand was cut as part of Broken Compass.

S t	Shingletor		Report 7	– Forested	Stands Compartment: 31 Year of Entry: 2018	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
66	42200 - Natural White Pine	Sawtimber Poor	3.8	100	1-50	Stand was cut through after Seney Fire which resulted in the E understory.
68	42290 - Natural Mixed Pine	Poletimber Well	23.2	40	1-50	Also large block of old growth blocks in well with Seney National Wildlife Refuge. Stand was burned through and salvaged after Seney Fire. There is a lot of residual red pine logs that are serving as mother trees. Regeneration is all over the board including re pine, white pine, spruce, tamarack, jack pine, hardwood and aspen. There are also some small pockets of mature trees not cut in the 70s.
69	42200 - Natural White Pine	Poletimber Well	9.6	78	1-50	
70	42220 - Natural Jack Pine	Poletimber Poor	5.2	40	1-50	
71	42200 - Natural White Pine	Sawtimber Well	5.4	72	51-80	
72	42220 - Natural Jack Pine	Poletimber Well	11.2	40	51-80	Stand was burned through and salvaged after Seney Fire. There is a lot of residual red pine logs that are serving as mother trees. Regen is all over the board including red pine, white pine, spruce, tamarack, jack pine, hardwood and aspen. There are also some small pockets of mature trees not cut in the 70s.
76	42220 - Natural Jack Pine	Poletimber Well	4.5	58	51-80	Stand is used by dispersed campers during hunting season and there is a hunter-made trail that has been made to access the interior of the stand. At this point, attempts to close the trail would be futile since it is likely that another trail would be made. Hold the stand until next entry and treat with stand 22 in this
						compartment or with stand 62 in the adjacent compartment.
80	6113 - Lowland Maple	Poletimber Well	17.4	76	81-110	
81	42210 - Natural Red Pine	Poletimber Well	8.1	59	111-140	Stand was set up last entry as part of the Tatrow's Marsh Sale #41-007-10-01. The sale went no bid three times.

42210 - Natural Red

Pine

42210 - Natural Red

Pine

82

83

Poletimber

Well

Poletimber

Well

0.4

0.5

59

59

111-140

111-140

Stand was part of Tatrow's Marsh Sale #41-007-10-01. The sale

went no bid three times.



Cover Type	Acres	Managed Site	General Comments:
6233 - Wet Meadow	7.7	No	
6233 - Wet Meadow	2.4	No	
6233 - Wet Meadow	446.0	No	
310 - Herbaceous Openland	115.6		Stand was part Broken Compass Left-Over Sale #41-20-08-01. The stand was scarified during the summer of 2011 and the fall of 2012.
			Regeneration was counted in June 2016 and the stand failed. There is very little regeneration and the stand will need to be planted.
500 - Water	10.6	No	
6233 - Wet Meadow	3.1	No	OPIC - FMD: Stand has areas that could be typed L instead of N. Soils are Markey Mucky Peat.
6233 - Wet Meadow	1.3	No	OPIC - FMD: Stand has areas that could be typed L instead of N. Soils are Markey Mucky Peat.
6233 - Wet Meadow	1.9	No	
500 - Water	27.9	No	
622 - Lowland Shrub	127.8	No	
6233 - Wet Meadow	283.4	No	
500 - Water	14.7	No	
6233 - Wet Meadow	5.6	No	OPIC - FMD: Soils are Markey Mucky Peat.
6233 - Wet Meadow	2.2	No	OPIC - FMD: Soils are Markey Mucky Peat.
6233 - Wet Meadow	4.1	No	
6233 - Wet Meadow	3.2	No	OPIC - FMD: Soils are Markey Mucky Peat.
6233 - Wet Meadow	2.9	No	OPIC - FMD: Soils are Markey Mucky Peat.
	6233 - Wet Meadow 6233 - Wet Meadow 310 - Herbaceous Openland 500 - Water 6233 - Wet Meadow 6233 - Wet Meadow 500 - Water 622 - Lowland Shrub 6233 - Wet Meadow 500 - Water 6233 - Wet Meadow 6233 - Wet Meadow 6233 - Wet Meadow	6233 - Wet Meadow 7.7 6233 - Wet Meadow 2.4 6233 - Wet Meadow 446.0 310 - Herbaceous Openland 115.6 500 - Water 10.6 6233 - Wet Meadow 1.3 6233 - Wet Meadow 1.9 500 - Water 27.9 622 - Lowland Shrub 127.8 6233 - Wet Meadow 283.4 500 - Water 14.7 6233 - Wet Meadow 5.6 6233 - Wet Meadow 2.2 6233 - Wet Meadow 4.1 6233 - Wet Meadow 3.2	Cover Type Acres Site 6233 - Wet Meadow 7.7 No 6233 - Wet Meadow 2.4 No 6233 - Wet Meadow 446.0 No 310 - Herbaceous Openland 115.6 No 500 - Water 10.6 No 6233 - Wet Meadow 1.3 No 6233 - Wet Meadow 1.9 No 500 - Water 27.9 No 622 - Lowland Shrub 127.8 No 6233 - Wet Meadow 283.4 No 500 - Water 14.7 No 6233 - Wet Meadow 5.6 No 6233 - Wet Meadow 2.2 No 6233 - Wet Meadow 4.1 No 6233 - Wet Meadow 3.2 No

Shingleton Mgt. Unit

Report 8 - Nonforested Stands



Stand	Cover Type	Acres	Managed Site	General Comments:
84	6229 - Mixed lowland shrub	58.8	No	