

Revision Date: 07/25/2012

Stand Examiner: Sheila Clark

Legal Description: T44N R16W Sections 19, 20 & 21

RMU (if applicable): Compartment 27 lies within Seney Manistique Swamp Management Area.

Management Goals: The Management Unit goals in this compartment include ensuring forest regeneration within the recently harvested and immature stands. Maintaining forest health is also a top priority in this compartment due to the amount of old mature jack pine stands while maintaining age class diversity. It is also a top priority to ensure that drainages remain free of debris and fill.

Soil and Topography: The soils within the compartment vary from well drained sands on the upland ridges to poorly drained sands on the lower ground. The topography within the area is flat with very little elevation difference. The upland ground is situated between lower drainages in a predominate northwest-southeast fashion. This compartment lies within two Land Type Associations (LTA's). The western 2/3 of this compartment lies within the Channel Fens South LTA and the eastern 1/3 lies in the Shingleton Fen LTA.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The compartment is mainly a contiguous block of state land. However, there are two isolated blocks of private land that are mainly used for hunting. The main roads in this unit are used extensively by the public to recreate. There are very few land use issues in the area.

Unique, Natural Features: None known.

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations: None.

Watershed and Fisheries Considerations: Fisheries Values Poor. The Stutts system downstream from confluence of the branches is classified as SQWW. Because of the existing sand bedload in the Manistique River Watershed, however, protection from increased sand bedload is still a high priority.

Wildlife Habitat Considerations: This compartment lies within the Seney Sand Lake Plain ecological subsubsection. The growing season in this area is less than 100 days with extreme minimum winter temperatures of -46° F. Annual snowfall in this area averages approximately 140 inches. The compartment falls within the Seney Manistique Swamp Management Area which highlights the following Featured Species: Moose, sharp-tailed grouse, snowshoe hare and white-tailed deer. The landscape within this compartment consists of low ridges separated by fingers of wetlands on a NW to SE orientation. General Land Office (GLO) Surveyor notes show the ridges were historically dominated by jack and red pine. White pine occurred at substantially lower densities. Deciduous species found on the ridges included aspen, white birch, and red maple. The lowlands within the compartment varied in vegetative cover. The wettest areas displayed an open marsh characteristic. Moderate water levels resulted in alder/willow habitat while conifers such as tamarack, spruce and jack pine grew in the wetland with the least amount of water. Windthrow, fire, and beaver ponding all likely played major roles in the natural disturbance regime. Current upland forests appear to have shifted from a jack pine/red pine codominant system to a jack pine dominated system. Stand structure has been significantly altered with a higher representation of smaller younger trees. Lowland conifer stands are likely quite similar in species composition to those found during the 1850s. Wildlife habitat objectives include maintaining age and structural diversity between upland conifer stands and protecting the integrity of stream corridors. Moose (Michigan special concern) likely utilize the compartment but no other rare species have actually been recorded. Other wildlife species of interest that may utilize this compartment include garter snake, American toad, chipping sparrow, mourning warbler and little brown bat.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel and minor peat and muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Utica and Collingwood Shales and Trenton Limestone subcrop below the glacial drift. The Trenton is used for stone/dolomite. The nearest gravel pit is located in Section 29 and potential appears to be limited. A clay pit is located 5 miles to the southeast. There is no commercial oil and gas production in the UP.

Vehicle Access: Access to the eastern portion of the compartment is good with a main road running either side of Stutts Creek. The western portion of the compartment is very limited there are numerous old closed logging roads that are growing in with trees; access in these areas is limited to foot travel.

Survey Needs: None.

Recreational Facilities and Opportunities: There are no recreational facilities in this area. The recreational opportunities are mainly hunting and blueberry picking, the Stutts does offer some fishing possibilities, see the fisheries comments above.

Fire Protection: This resource was once dominated by large catastrophic fires before large scale suppression efforts came into play. Today the areas with poor access are mainly young healthy stands with minimal fuel loading. Response time to the eastern portion of the compartment will be fairly quick with adequate detection efforts.

Additional Compartment Information:

- > The following reports from the Inventory are attached:
 - Total Acres by Cover Type and Age Class
 - Proposed Treatment Summary
 - Proposed Treatments No Limiting Factors
 - Proposed Treatments With Limiting Factors
 - Stand Details (Forested and Nonforested)
 - Dedicated and Proposed Special Conservation Areas

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

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

 \triangleright

Table 1 – Total Acres by Cover Type and Age Class

Shingleton Mgt. Unit Sheila Clark : Examiner

Compartment 027 Year of Entry 2014



Age Class

		6.0	6 ^{7,0} 7	6 ² ,0	67.10 1930	10.09	65. ³⁶	69 ^{.08}	101	69.00 69.00	66:00	100,000	0 ¹⁷ 0 ¹⁷ 0	*0č1	oos Level A	/ ⁽⁸ 0,
Aspen	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5	
Jack Pine	0	242	558	0	91	0	7	0	7	0	0	0	0	0	904	
Low-Density Trees	94	0	0	0	0	0	0	0	0	0	0	0	0	0	94	
Lowland Conifers	0	9	0	0	0	0	0	0	0	38	0	0	0	0	48	
Lowland Deciduous	0	0	0	0	0	0	0	0	29	0	0	0	0	0	29	
Lowland Mixed Forest	0	0	0	0	0	0	0	0	42	46	0	0	0	0	89	
Lowland Shrub	393	0	0	0	0	0	0	0	0	0	0	0	0	0	393	
Lowland Spruce/Fir	0	0	0	1	9	0	3	20	6	0	0	0	0	0	39	
Natural Mixed Pines	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4	
Red Pine	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3	
Upland Conifers	0	0	0	0	0	0	0	0	10	0	0	0	0	0	10	
Upland Mixed Forest	0	8	0	0	0	0	0	0	0	0	0	0	0	0	8	
Upland Spruce/Fir	0	0	0	0	0	0	0	9	0	0	0	0	0	0	9	
Water	24	0	0	0	0	0	0	0	0	0	0	0	0	0	24	
Total	511	259	558	6	100	0	10	34	97	85	0	0	0	0	1659	



S t		Shingleton Mgt. Unit		Tabl	e 3 with	Treatme No Limit	Compartment: 027 Year of Entry 2014	AND REAL PROVINCIAL PROVINCI PROVINCIAL PROVINCIAL PROVINCIAL PROVINCIAL PROV		
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
28	41027028-Cut	22.0	42220 - Natural Jack Pine	High Density Pole	46	111-140	Harvest	Clearcut with Reserves	42221 - Natural Jack Pine, Mixed Deciduous	Cmpt. Review Proposal
Presc Specs	<u>ription</u> Harvest a <u>s:</u>	all mercha	intable trees. 100 foot	buffer along	g Stutts (Creek - that	t will serve as ret	ention.		
<u>Other</u> Comn	_ Stand wil	l be scarif	fied for natural regener	ation. If tha	t fails th	en trench a	nd plant to jack	oine.		
<u>Next</u> <u>Steps</u>	-									
<u>Propos</u> Start D	<u>sed</u> 0 <u>ate:</u> 10/01/201	3								
30	41027030-Cut	68.4	42220 - Natural Jack Pine	High Density Pole	48	111-140	Harvest	Clearcut with Reserves	42221 - Natural Jack Pine, Mixed Deciduous	Cmpt. Review Proposal
Presc Specs	<u>ription</u> Harvest a	all mercha	intable trees. Leave re	tention alon	g edge.					
<u>Other</u> Comn	This stan	d is varial	ble and consists of jack	k pine, black	spruce	and mixed	deciduious trees	i.		
<u>Next</u> <u>Steps</u>	Site shou	Ild be eith	er scarified. If natural	regeneratio	n fails tre	ench and pl	lant to jack pine.			
Propos Start D	<u>sed</u> 9 <u>ate:</u> 10/01/201	3								

Total Treatment Acreage Proposed: 90.4

S t		Shinglet	on Mgt. Unit	Table 4	Tre a L	eatment imiting	Compartment: 027 Year of Entry 2014	DNR DNR		
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
56	41027056-Cut	6.8	42220 - Natural Jack Pine	High Density Pole	63	81-110	Harvest	Clearcut	42221 - Natural Jack Pine, Mixed Deciduous	Cmpt. Review Proposal
Preso Spec	<u>cription</u> Stand is <u>s:</u> optional	very small - unit with sta	would have to be onder the would have to be onder the work of the	combined with	n anothe	r comparti	ment harvest. Ha	rvest all trees - so	small no retention. Co	uld be an
<u>Other</u> Comr	This star <u>ment:</u>	nd is mostly	jack pine with som	e black spruc	e, and re	ed and wh	ite pine.			
<u>Next</u> Steps	Monitor s	stand after h	arvest to see if nee	eds scarificati	on.					
<u>Propos</u> Start [<u>sed</u> <u>Date:</u> 10/01/201	13								
<u>Limiti</u> <u>Treat</u>	ng Factor and No ment Reason	o 3G: C comn	Other Influence zon	es - See						
		Smal comp	l acreage. Not con partment.	venient to co	mbine w	ith other s	tands in compartn	nent. Possibly ha	rvest with harvest in and	other
A	Total Treatmer creage Propose	nt d: 6.8	3							

				Ou Prescr	t of YC ibed w	DE Tr ith No Li	eatments imiting Facto	or	Year of Entry: 2014	DNR DNR	
Tre N	atment lame	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status	
410 0	009014- Cut1	5.2	6120 - Lowland Cedar	High Density Pole	141		Harvest	Patch or Strip Clearcut	6120 - Lowland Cedar	Cmpt. Review Proposal - Incomplete	
Prescription Specs:	n patch cut	app. 5 ac	res, determined at time	e of prep							
<u>Other</u> Comments:											
<u>Next</u> <u>Steps:</u>	Monitor a	iccording t	to work instructions.								
Proposed Start Date:	10/01/20	11									
41044 O	4_OutOfY E-Cut	0.9					Harvest	Crown Thinning	42210 - Natural Red Pine	Cmpt. Review Proposal - Incomplete	
Prescription Specs:	 Mark red 	pine and	white pine to 80 sq.ft. v	vhere dens	ities are	high enoug	h. Cut all other	species except hem	nlock, oak, and cedar.		
<u>Other</u> Comments:	Retention will be a portion of the red pine and white pine trees remaining.										
<u>Next</u> <u>Steps:</u>	Possible	regenerati	ion harvest next year o	f entry.							
Proposed Start Date:	10/01/20	13									
4117	2002-Cut	4.4	4112 - Maple, Beech, Cherry Association	High Density Pole	49		Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal	
Prescription Specs:	n_ Treatmen adjacent MO=Un-e Retentior	nt=Thin sta hardwood even aged n=Residua	and down to 80 BA on a in comp 169 in 2014. hardwoods with qualit I BA	average wh y Sugar Ma	ile puttin ple stem	ig in regen is	gaps to promote	e species diversity a	and Sugar Maple. Put s	tand up with	
<u>Other</u> Comments:											
<u>Next</u> <u>Steps:</u>	Natural r	egen surve	ey to follow harvest dur	ing the nex	t invento	ry cycle.					
Proposed Start Date:	10/01/20	14									
Total	Treatmen	t	_								

Acreage Proposed: 10.5

S t	Shingleto	n Mgt. Unit		5 – Fo	prested Stands	Compartment: 027 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42220 - Natural Jack Pine	High Density Pole	1.7	28		
2	42220 - Natural Jack Pine	High Density Pole	3.7	28		
3	42220 - Natural Jack Pine	High Density Pole	1.3	28		
4	42220 - Natural Jack Pine	High Density Pole	26.4	28		
5	42220 - Natural Jack Pine	High Density Pole	3.9	28		
6	42220 - Natural Jack Pine	High Density Pole	7.4	28		
9	42220 - Natural Jack Pine	High Density Pole	116.8	28		
10	42220 - Natural Jack Pine	Medium Density Pole	16.3	28		
11	42220 - Natural Jack Pine	High Density Pole	54.7	28		
12	42220 - Natural Jack Pine	High Density Pole	20.0	28		Young, regenerating timber
14	42220 - Natural Jack Pine	High Density Pole	20.5	28		
15	42220 - Natural Jack Pine	High Density Pole	29.6	28		
16	42220 - Natural Jack Pine	High Density Pole	2.0	28		
17	42220 - Natural Jack Pine	High Density Pole	2.1	28		
19	42220 - Natural Jack Pine	High Density Pole	3.1	28		
20	42220 - Natural Jack Pine	High Density Pole	4.6	24		
21	42220 - Natural Jack Pine	High Density Pole	35.9	24		
22	42220 - Natural Jack Pine	High Density Pole	32.4	24		

S t	Shingletor	n Mgt. Unit		5 – Fo	orested Sta	nds Compartment: 027 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	42220 - Natural Jack Pine	High Density Pole	10.9	24		
25	42220 - Natural Jack Pine	Medium Density	125.4	15		First Martin sale, 410569401
26	6126 - Lowland Jack Pine	High Density Sapling	54.8	24		mixed upland lowland
27	6126 - Lowland Jack Pine	High Density Sapling	57.1	24		mixed upland and lowland
28	42220 - Natural Jack Pine	High Density Pole	23.0	46	111-140	This is a healthy, mature jack pine stand. There is a small pocket of red pine near the creek.
29	6139 - Mixed Lowland Forest	Medium Density Pole	12.6	87	1-50	
30	42220 - Natural Jack Pine	High Density Pole	68.4	48	111-140	This stand is a mixture of upland and lowland. Some of the jack pine are starting to die.
32	6122 - Black Spruce	Low Density Pole	8.7	48	1-50	
33	4311 - Pine, Aspen Mix	Low Density Sapling	8.1	18		
34	6124 - Lowland Spruce- Fir	Medium Density Pole	38.5	96		
35	429 - Mixed Upland Conifers	Medium Density Log	9.6	80	51-80	
36	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	29.0	80		
37	6125 - Lowland Black Spruce, Jack Pine	Low Density Sapling	9.3	16		Stand was cut, lower ground - didn't regenerate as well.
38	42220 - Natural Jack Pine	High Density Sapling	53.3	16		Jack pine with supercanopy of red and white pine a vein of aspen regeneration through the middle of the stand. Stand was scarified.
39	42210 - Natural Red Pine	Medium Density Log	3.4	80	51-80	
41	42260 - Natural Pine, Mixed Deciduous	High Density Log	4.0	77	81-110	
42	42120 - Planted Jack Pine	High Density Sapling	51.3	18		Stand was cut in 1993, regeneration was poor and planted in 1994. A slough runs through the middle of the stand from north to south.

S t	Shingletor	n Mgt. Unit		5 – Fo	prested Stands	Compartment: 027 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
43	6139 - Mixed Lowland Forest	Medium Density Pole	46.2	92	51-80	
44	6122 - Black Spruce	Low Density Pole	6.2	80	51-80	
45	42120 - Planted Jack Pine	Medium Density	42.2	28		Slough runs through northern portion.
46	42320 - Upland Spruce	Medium Density Pole	9.4	75	111-140	This is higher ground than adjacent spruce stand.
50	6122 - Black Spruce	Low Density Pole	13.6	72	1-50	
51	6122 - Black Spruce	Medium Density Pole	2.9	61	51-80	
53	6126 - Lowland Jack Pine	Low Density Sapling	10.3	28		Regeneration looks good for lowland.
54	6122 - Black Spruce	Low Density Pole	6.8	72		
55	42220 - Natural Jack Pine	Medium Density Pole	6.6	82	1-50	Buffer along Stutts Creek.
56	42220 - Natural Jack Pine	High Density Pole	6.8	63	81-110	
57	42220 - Natural Jack Pine	Medium Density	11.7	16		
58	6122 - Black Spruce	Low Density Sapling	1.1	38		Small jack pine and black spruce coming up.
59	6132 - Mixed Lowland Forest with Cedar	Low Density Pole	29.8	87	1-50	
60	4134 - Aspen, Spruce/Fir	High Density Pole	5.0	38		

Shingleton Mgt. Unit

6 – Nonforested Stands

Compartment: 027 Year of Entry: 2014



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
7	629 - Mixed non-forested wetland	193.2	No	Unspecified	
8	6229 - Mixed lowland shrub	29.6	No	Low (NonForested)	
13	629 - Mixed non-forested wetland	12.2	No	Unspecified	
18	6222 - Shrub-Carr	0.7	No	Unspecified	
23	629 - Mixed non-forested wetland	141.6	No	Unspecified	
31	6222 - Shrub-Carr	6.3	No	Unspecified	
40	50 - Water	23.7	No	Unspecified	
47	3302 - Low Density Conifer Trees	26.6	Planted	Jack Pine	Passed regen count.
48	3302 - Low Density Conifer Trees	44.3	Planted	Jack Pine	Stand passed regeneration count.
49	6220 - Alder/willow	6.0	No	Unspecified	
52	6220 - Alder/willow	3.3	No	Unspecified	
61	3302 - Low Density Conifer Trees	10.5	Planted	Jack Pine	
62	3303 - Mixed Low Density Trees	8.2	No	Unspecified	
63	3302 - Low Density Conifer Trees	4.5	Yes	Jack Pine	FTP C41-1163 Tsale 41-012-04-01



7 – 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.

Stand	SCA Type	SCA Name	Acres	Comments			



8 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

Conservation Area	Туре	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
----------------------	------	-------------	---



Compartment: 027 T44N R16W Sec. 19, 20, 21 County: Schoolcraft Unit: Shingleton YOE: 2014 Acres: 1,659 GIS Calculated Examiner: Sheila Clark/Don Kuhr Map Revised: 9/12/2012 Map Phase: Pre-Review

Stand # Stocking 23 Density (412)0) - A7 Level 3 Ol Level 4 Code Cover Type Code **Stand Boundary Map**

0.5

Legend

- DNR Survey Corners
- Remonumented Section Corners
- ____ Miris Corners
- _ . Poor Dirt Roads
- Trail (Non-Recreation)
- ___ Stream
- Intermittent Stream
- Stand Boundaries

Forest Stands

Level 3

- 413 Aspen Types
- 421 Planted Pines
- 422 Natural Pines
- 423 Other Upland Conifers
- 429 Mixed Upland Conifers
- 431 Upland Mixed Forest
- 611 Lowland Deciduous Forest
- 612 Lowland Coniferous Forest
- 613 Lowland Mixed Forest

Non-Forest Stands

- Level 3
- 330 Low-Density Trees
- 500 Water
- 622 Lowland Shrub
- 629 Mixed non-forested wetland



