

Revision Date: 8/22/11

Stand Examiner: Bob Burnham

Legal Description: T43N R16W Sections 21,28,31,32&33

RMU (if applicable):

**Management Goals:** The main goal in this compartment is to conduct multiple resource management for the good of the citizens of the State of Michigan.

**Soil and Topography:** Soils in this compartment consist of Rubicon-Roselawn Sands, Wallace Sands, Carbondale and Rifle.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The eastern portion of the compartment has broken ownership and there is a fairly large portion of private holdings which were sold in the early 90's from Champion International. Now there are numerous gates in this area making access difficult. The Hiawatha National Forest borders on the west.

Unique, Natural Features: The compartment is very remote with a mix of marsh and upland ridges.

Archeological, Historical, and Cultural Features: None known

**Special Management Designations or Considerations:** The entire compartment falls within the Seney Manistique Swamp Management Area.

**Watershed and Fisheries Considerations:** The Big Ditch upstream from Barnhart Creek is classified as Second Quality Cold Water (SQCW). Smith Creek is classified Second Quality Warm Water (SQWW). Protecting Smith Creek from encroachment by beaver isn't a high priority, but protection from increased sand bedload is 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  $-46^{0}$  F. Annual snowfall in this area averages between 120 and 140 inches. General Land Office (GLO) Surveyor notes show marsh and low pine ridges to be the dominant landforms in the southern portion of the compartment. The ridges held primarily jack pine and red pine with some tamarack, spruce, fir, aspen and white birch mixed in. Forested lowlands contained spruce, tamarack, and red pine. The open marshlands contained cranberry, and various grasses and sedges. The northern portion of the compartment contains more upland. The surveyor notes show this upland portion of the compartment (section 21) held a mix of white pine, balsam fir, hemlock, aspen, and red pines. Beaver ponds along Smith Creek played an important role in the ecology of the area. Wildfire and windthrow also provided natural disturbances within the compartment. Species composition throughout the compartment appears to be similar to that described in the GLO notes. Jack pine occurs on many of the ridges, as does white pine, and white birch, and aspen. Low lying forested areas hold a mix of black spruce, jack pine, red pine, and white pine. Although

the species composition is similar, there undoubtedly are differences in the structural composition when compared to the circa 1850 forest. Wildlife habitat objectives include maintaining species, age and structural diversity within and between conifer stands, protecting the integrity of the marshes, and maintaining a corridor along Smith Creek. Gray wolves (Federal and Michigan endangered) and sharp-tailed grouse (Michigan special concern) are known to utilize this area. Other wildlife species of interest include northern harrier, saw-whet owl, river otter, and mink.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of lacustrine (lake) sand and gravel, peat and muck and coarse-textured glacial till in the northeast corner. There is insufficient data to determine the glacial drift thickness. The Ordovician Queenston Shale and Big Hill Dolomite subcrop below the glacial drift. The Big Hill could probably be used for stone. The nearest gravel pit is 3 miles to the east, but there is gravel potential northeast of the ORV trail. There is no commercial oil and gas production in the UP.

**Vehicle Access:** There are two main Department Roads in the compartment, Smith Creek Road and the Haywire Grade. Access off the Grade into section 21 is limited due to fragmented private ownership. Also all of section 31 and the west half of 32 are marsh islands and have no road access.

## Survey Needs: None

**Recreational Facilities and Opportunities:** The Haywire Grade in the northeast part of the compartment is a designated Snowmobile and ORV Trail. The lay of the land lends itself to some remote hunting opportunities.

**Fire Protection:** Fire response to the lands accessed off of Smith Creek Road will be slow due to distance and the equipment needed will likely be marsh type units. Due to all the private lands and gates in and around section 21 access will be difficult.

## **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

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

# Shingleton Mgt. Unit

### Robert Burnham : Examiner

### Compartment 040 Year of Entry 2013



							Age	Class									
	HOR	Desige of the second	0.'z	0 <sup>.7</sup> 0	D <sup>-12</sup>	60-100-100-100-100-100-100-100-100-100-1	10 <sup>-10</sup>	19. 19. 19.	00. 00	10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	40 <sup>1</sup>	98 95	601.001	10°170	50× 500	AND A	000
Aspen	0	15	32	0	19	0	0	0	0	0	0	0	0	0	0	65	
Bare/Sparsely Vegetated	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	
Cedar	0	0	0	0	0	0	0	0	0	0	109	0	0	15	0	124	
Herbaceous Openland	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53	
Jack Pine	0	0	184	43	0	20	0	0	34	5	0	0	0	0	0	285	
Lowland Conifers	0	0	0	25	0	12	0	34	22	22	46	21	0	0	0	182	
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	40	
Lowland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
Lowland Spruce/Fir	0	0	0	0	0	0	0	8	0	34	46	0	0	0	0	88	
Marsh	846	0	0	0	0	0	0	0	0	0	0	0	0	0	0	846	
Natural Mixed Pines	0	10	0	22	0	0	0	0	4	47	28	8	0	0	0	120	j
Oak	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	10	
Planted Mixed Pines	0	63	0	0	0	0	0	0	0	0	0	0	0	0	0	63	
Red Pine	0	0	0	0	0	0	0	7	15	0	0	0	0	0	0	22	
Tamarack	0	0	0	0	0	0	0	15	0	0	0	11	0	0	0	26	
Treed Bog	199	0	0	0	0	0	0	0	0	0	0	0	0	0	0	199	
Upland Conifers	0	0	0	0	0	0	0	0	0	0	31	0	0	0	0	31	
White Pine	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	22	
Total	1184	88	216	90	19	32	0	64	108	108	301	40	0	15	0	2264	



# Table 2 – Proposed Treatment Summaries

MICHIGAN	Shingleton Mgt. Unit Year of Entry 2013										Compartment Total Compartment Acres:	
				Acı	res by 1	reatm	ent Ty	ре				
	Commercial Harvest - 220	Site Prep	0 - 0		Tree P	lanting	- 0		Pres	cribed Burn - 0	Other - 0	
	Habitat Cut - 14	Opening	Maintenance	- 0	Tree S	eeding	- 0		Pesti	cide - 0		
				Co	over Ty	pe by H	Harves	t Meth	od			
	Cedar Jack Pir	ne	15	5 0	0 0 0	0 0 0 0	0	0 0	15 45	PO <sup>S</sup>		
	Lowland	d Conifers	42	2 0	0	0	0	0	42	Ι		
	Lowland	d Spruce/Fir	28	3 0	0	0	0	0	28	Ι		
	Natural	Mixed Pines	27	7 0	16	5	8	0	55	Ι		
	Red Pin	e	0	0	15	0	0	0	15	I		
	Tamara	ck	11	I 0	0	0	0	0	11	l		
	Upland	Conifers	0	0	0	0	22	0	22	l		
			Total 16	8 0	31	5	30	0	234	1		

S t		Shing	gleton Mgt. Unit			atments Pre _imiting Fac		Compartment: 040 Year of Entry 2013	DNR DNR C
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
7	41040007-Cut	3.0	42220 - Natural Jack Pine	High Density Pole	79	Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal
Presc Spece				rith stands to the nor	th in Co	mpartment 39, n	nake start date 2017. C	learcut stand and leave	some red and
<u>Other</u> Comr	nents:								
<u>Next</u> Steps		e jack pir	ne including scarificat	tion, planting, or see	ding. Ao	ceptable regen	is jack pine or a mix of	ack, red and white pine	
9	41040009-Cut	4.6	42290 - Natural Mixed Pine	High Density Pole	82	Harvest	Shelter Wood with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal
Presc Spece	•		harvested with stand	s to the north in Con	np 39. N	lake the start da	ate 2017. Do a shelterw	rood seed type cut , reta	in windfirm
<u>Other</u> Comr	ments:								
<u>Next</u> Steps		possible	e. Acceptable regen	is a mix of pine spe	cies incl	uding red, white	and jack. Follow-up ne	xt oi cycle with regen ch	leck.
15	41040015-Cut	3.4	6125 - Lowland Black Spruce, Jack Pine	High Density Pole	79	Harvest	Clearcut with Reserves	6125 - Lowland Black Spruce, Jack Pine	Cmpt. Review Proposal
Spece	<u>s:</u> 39 (2017 along lov	YOE).	schedule stand for ha					nd should be treated with retain some white pine	
Other Comn Next	ments:	iabarour	nd if nossible Accen	table regen is a mix	of the c	irrent species of	ount regen at the subse	quent oi cycle	
Steps		igrigioui				inent species co	Sunt regen at the subse		
19	41040019-Cut	2.9	42220 - Natural Jack Pine	High Density Pole	79	Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal
Presc Specs		over-ma	ature jack pine, appro	ximately 10' of red p	oine and	10' of white pine	e. Retain some red and	white pine.	
<u>Other</u> Comr	<u>nents:</u>								
<u>Next</u> Steps		ze and I	ocation, site prep opt	ions are limited. Ac	ceptable	regen is a mix o	of the current species.		
20	41040020-Cut		6125 - Lowland Black Spruce, Jack Pine	High Density Pole	109	Harvest	Clearcut with Reserves	6125 - Lowland Black Spruce, Jack Pine	Cmpt. Review Proposal
Presc Spece			and knoll component Also retain some re				mostly tamarack. Star	nd needs to be cut retair	patches of
<u>Other</u> Comr	nents:								
<u>Next</u> Steps		ate to a	mix of the current spe	ecies. Examine rege	en during	the next oi cycl	е.		

Shingleton Mgt. Unit

#### Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 040 Year of Entry 2013 OF NATURA

S t		Chin	gioton ingli onit	wi	-	imiting Fact		Year of Entry 2013	DNR DNR
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
21	41040021-Cut	22.3	429 - Mixed Upland Conifers	High Density Log	94	Harvest	Crown Thinning	429 - Mixed Upland Conifers	Cmpt. Review Proposal
Preso Spec		on Con	tract, Smoking Gun Ur	nit 1. Residual BA 4	10' white	pine and 10' red	pine. Thinning.		
<u>Othei</u> Comr	<u>r</u> ments:								
<u>Next</u> Steps	None								
23	41040023-Cut	4.2	42290 - Natural Mixed Pine	High Density Log	82	Harvest	Seed Tree with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal
<u>Preso</u> Spec Other	s: are cut h windfirm	arvest t						mix on west edge. If sta age for. Do a seed tree	
Comi Next Steps		ole rege	n is a mix of the currer	nt species. Examin	e regen a	at the next oi cyc	le.		
28	41040028-Cut	9.1	42290 - Natural Mixed Pine	High Density Pole	82	Harvest	Clearcut with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal
<u>Spec</u> <u>Other</u>	s: stand as <u>ments:</u> Acceptat	well.	and leave some wind fin					E), if stand 37 is cut try a	nd harvest this
30	41040030-Cut	4.0	42220 - Natural Jack Pine	High Density Pole	79	Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal
Preso Spec		t stand a	and reserve some pine	e for seed, due to th	e size ar	nd location of sta	nd site prep work will b	e a challenge.	
<u>Othei</u> Comi	<u>r</u> ments:								
<u>Next</u> Steps		ole rege	eneration is a mix of ter	n current species, e	xamine r	egen at the next	OI cycle.		
34	41040034-Cut	9.6	42290 - Natural Mixed Pine	High Density Log	82	Harvest	Seed Tree with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal
Preso Spec		dtree c	ut leaving red and whit	e pine for seed. Ot	her reter	ntion can be exclu	uded on the fringes of	the stand.	
	ments:								
Next	Acceptat	ole rege	n is a mix of the currer	nt species. Examin	e regen a	at the next oi cyc	le.		

Compartment: 040 Shingleton Mgt. Unit Table 3 -- Treatments Prescribed with No Limiting Factor Year of Entry 2013 s t а Treatment Acres Stage1 Size Stand Treatment Treatment Cover Type n Approval CoverType Method Name Density Objective Status Type d Age 36 41040036-Cut 1.9 42290 - Natural High Density Log 90 Harvest Seed Tree with 42290 - Natural Cmpt. Review Mixed Pine Reserves Mixed Pine Proposal Prescription Narrlow ridge, retain red and white pine seed trees on edge, it may be possible to scarify center of stand if lowland crossing could be negotiated. Specs: Other Comments: <u>Next</u> Acceptable regen is a mix of teh current species. Steps: 38 41040038-Cut 15.3 42210 - Natural High Density Log 74 Harvest Seed Tree with 42210 - Natural Red Cmpt. Review Red Pine Reserves Pine Proposal Prescription Stand is 2-3 aged, the mother trees are 100+ yrs old. Approx 80' of red pine and 20' of white pine. harvest stand and mark as a shelterwood Specs: seed tree cut leaving smaller diameter pine and large diameter pine for seed source. Other\_ Comments: <u>Next</u> Scarify if possible, acceptable regen is a mix of pine species. Examine regen during next oi cycle. Steps: 41040050-Cut 6120 - Lowland High Density Pole 124 6120 - Lowland 50 15.0 Harvest Clearcut with Cmpt. Review Cedar Reserves Cedar Proposal Prescription Stand was prescribed last entry but factor limited due to survey, the stand has more cedar than previous OI indicated, stand is within the deer Specs: yard layer and has enough cedar to provide habitat, however deer are not using the area currently. The tamarack areas could be harvested while leaving the pure cedar areas. Other\_ Comments: none, examine regen at next oi cycle, acceptable regen is a mix of the current species. <u>Next</u> Steps: 41040051-Cut 6.7 6125 - Lowland High Density Pole Clearcut with 6125 - Lowland Cmpt. Review 51 84 Harvest Black Spruce, Jack Reserves Black Spruce, Jack Proposal Pine Pine Prescription Harvest stand put retention near pond also leave seed trees throughout. Specs: Other Comments: Next Acceptable regen is a mix of the current species, examine regen at the next oi cycle. Steps: 41040054-Cut 15.5 42220 - Natural Clearcut with 42220 - Natural Jack 54 High Density Log 72 Harvest Cmpt. Review Jack Pine Reserves Pine Proposal Prescription Retain some red and white pine for seed, scarify any high ground. Specs: Other Comments: Scarification/jack pine regen. Acceptable regen is a mix of teh current species. Examine regen in the next oi cycle. Next

Steps:

S t		Shin	gleton Mgt. Unit			atments Pre _imiting Fac		Compartment: 040 Year of Entry 2013	DI LATURT LATURT
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
55	41040055-Cut	8.2	6122 - Black Spruce	Medium Density Pole	98	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
Presc Specs		ing to e	nsure tops are used fo	r flotation. This is v	ery sma	II diameter wood	d but its done growing.	Leave retention along e	dges.
<u>Other</u> Comr	nents:								
<u>Next</u> Steps		ceptabl	e regen is spruce and j	ack pine. Examine	regen a	at the next of cyc	le.		
58	41040058-Cut	19.8	42220 - Natural Jack Pine	High Density Pole	41	Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal
Presc Spece		stand re	etain some red and whit	e pine.					
<u>Other</u> Comr	nents:								
<u>Next</u> Steps	•	tand/jac	ck pine regen acceptab	le regen is a mix of	the curr	ent species. Ex	amine regen at the nex	t oi cycle.	
62	41040062-Cut	10.8	6125 - Lowland Black Spruce, Jack Pine	High Density Pole	82	Harvest	Clearcut with Reserves	6125 - Lowland Black Spruce, Jack Pine	Cmpt. Review Proposal
Presc Specs		mostly	low, leave retention on	the edges.					
<u>Other</u> <u>Comr</u>	- nents:								
<u>Next</u> Steps	•	ole rege	n will be a mix of the c	urrent species. Che	eck rege	n at the next oi o	cycle.		
68	41040068-Cut	11.3	6121 - Tamarack	High Density Pole	109	Harvest	Clearcut with Reserves	6121 - Tamarack	Cmpt. Review Proposal
Presc Specs	sporatic	and not		t that there are no	deer usi	ng the area right	now. Stand should be	deeryard layer, however harvested with a clearce	
<u>Other</u> Comr	- nents:								
<u>Next</u> Steps		ole rege	n is a mix of the curren	t species. Examine	e regen a	at the next oi cyo	cle.		
71	41040071-Cut	14.4	42290 - Natural Mixed Pine	High Density Pole	81	Harvest	Clearcut with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal
Presc Specs	•	ust be c	ut due to maturity, will	need to leave reten	tion on r	north to mitigate	green-up. Leave some	e red and white pine for s	seed.
<u>Other</u> Comr									
<u>Next</u> Steps		tion/jacl	k pine regeneration, ac	cetable regen is jac	k pine w	<i>i</i> ith some red an	d white pine. Examine	regen at next oi cycle.	

S t	Shingleton Mgt. Unit				-	atments Prea _imiting Fact		Compartment: 040 Year of Entry 2013	DNR DNR
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
73	41040073-Cut	20.2	6122 - Black Spruce	Medium Density Pole	92	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
Preso Spec		owland f	forest clearcut stand, le	ave retention in pa	itches an	d near camp to i	north leave all cedar.		
<u>Other</u> Comr	<u>r</u> ments:								
<u>Next</u> Steps	Acceptal	ole rege	n is a mix of the curren	t species, examine	e regen a	t next oi cycle.			
76	41040076-Cut	7.9	42290 - Natural Mixed Pine	High Density Log	100	Harvest	Crown Thinning	42290 - Natural Mixed Pine	Cmpt. Review Proposal
Preso Speca		part of t	the Smoking Gun Sale,	on contract. Sche	eduled as	a thinning.			
<u>Other</u> Comr	<u>nents:</u>								
<u>Next</u> Steps	None								
78	41040078-Cut	3.1	42290 - Natural Mixed Pine	High Density Pole	82	Harvest	Clearcut with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal
Preso Spec:		a narro	w ridge of pine/spruce,	try and negotiate v	vith Smol	king Gun produc	er to cut this stand. Le	eave a some red and whi	te pine for seed
<u>Other</u> Comr	<u>nents:</u>								
<u>Next</u> Steps		regen a	at next oi cycle. Accep	table regen is a mi	x of the c	current species.			
A	Total Treatmen creage Propose		34.1						

S t a		Shingle	ton Mgt. Unit	Table 4		ents Prescrib ng Factor	ed with	Compartment: 040 Year of Entry 2013	DINATURAL DINATURAL
n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error						
Presc Specs	ription S:								
<u>Other</u> Comn									
<u>Next</u> <u>Steps</u>	<u>:</u>								
	ng Factor and No ment Reason	<u>)</u>							
Ac	Total Treatmer reage Propose		0						

### Out of YOE -- Treatments Prescribed with No Limiting Factor

Year of Entry: 2013



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
41022_OutO OE-Cut	<b>fY</b> 35.6				Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
rescription 31 pecs:	d row thinnir	ng. Cut all trees in de	esignated rows. F	Rows can be	e spaced wider	apart in areas with lower	basal area. Do not cut	hemlock and oak.
<u>ther</u> D omments:	o not cut any	/ trees within 50 feet	of the West Brar	nch Manisti	que River.			
<u>ext</u> T teps:	nin next year	of entry.						
41049_OutO OE_1-Cut	<b>fY</b> 4.7				Harvest	Single Tree Selection	42290 - Natural Mixed Pine	Cmpt. Review Proposal
		and white pine to 30 Cut all other species				ion where pine exists. Are	eas that have thicker y	oung poles can be
<u>becs:</u> m ther A	arked to 80.		s except hemlock	and oak if		ion where pine exists. Are	eas that have thicker y	oung poles can be
<u>pecs:</u> m <u>ther</u> A omments: ext R	arked to 80.	Cut all other species	s except hemlock	k and oak if	present.	ion where pine exists. An		
<u>pecs:</u> m t <u>her</u> A omments: ext R teps:	arked to 80. ccess to star	Cut all other species	s except hemlock	k and oak if	present.			
pecs: m ther A omments: ext R teps: 41053_OutO OE-Cut rescription M	arked to 80. ccess to star egeneration FY 10.2 ark red pine	Cut all other species nd is too difficult for o walkthrough during r	s except hemlock continuous thinnin next inventory cyc sq. ft. Create ga	c and oak if ng. cle. Accepta	present. able regeneration Harvest by for regenerat	on includes any species n	nixture currently found 42290 - Natural Mixed Pine	onsite. Cmpt. Review Proposal
pecs: m ther A omments: R teps: 41053_OutO OE-Cut rescription M pecs: m	arked to 80. ccess to star egeneration fY 10.2 ark red pine arked to 80.	Cut all other species nd is too difficult for o walkthrough during r and white pine to 30	s except hemlock continuous thinnin next inventory cyc 9 sq. ft. Create ga s except hemlock	c and oak if ng. cle. Accepta aps in canop c and oak if	present. able regeneration Harvest by for regenerat	on includes any species n Single Tree Selection	nixture currently found 42290 - Natural Mixed Pine	onsite. Cmpt. Review Proposal

Acreage Proposed: 50.5

S t	Shingleton Mgt. Unit			5 – Fo	prested Stands	Compartment: 040 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	High Density Pole	7.0	90		
2	6124 - Lowland Spruce- Fir	Medium Density	12.1	40		
3	42290 - Natural Mixed Pine	High Density Pole	4.0	79	81-110	
4	6120 - Lowland Cedar	High Density Pole	101.7	90		
5	42290 - Natural Mixed Pine	High Density Log	4.5	92	111-140	
6	42290 - Natural Mixed Pine	High Density Log	13.4	92	111-140	
7	42220 - Natural Jack Pine	High Density Pole	3.0	79		
8	42290 - Natural Mixed Pine	High Density Log	5.0	92	111-140	Plains Lake Sale
9	42290 - Natural Mixed Pine	High Density Pole	4.6	82	111-140	
10	42220 - Natural Jack Pine	High Density Pole	4.9	82		
11	42290 - Natural Mixed Pine	High Density Log	3.5	94	111-140	
12	42220 - Natural Jack Pine	High Density Pole	3.4	79		
13	4122 - Oak, Pine	High Density Pole	9.9	70		
14	42220 - Natural Jack Pine	Low Density Pole	13.1	28		
15	6125 - Lowland Black Spruce, Jack Pine	High Density Pole	3.4	79		
16	42200 - Natural White Pine	High Density Log	21.9	77	51-80	
18	42220 - Natural Jack Pine	High Density Log	5.5	79		
19	42220 - Natural Jack Pine	High Density Pole	2.9	79		

S t	Shingleto	n Mgt. Unit		5 – Fe	orested Stands	Compartment: 040 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	6125 - Lowland Black Spruce, Jack Pine	High Density Pole	21.0	109		
21	429 - Mixed Upland Conifers	High Density Log	22.3	94	81-110	
23	42290 - Natural Mixed Pine	High Density Log	4.2	82	81-110	Traces of white birch, aspen and tamarack.
24	42140 - Planted Mixed Pine	Medium Density	63.3	9		2 aged stand with scattered red and white pine residual.
26	4133 - Aspen, Mixed Pine	High Density Sapling	9.1	6		a couple trace oak logs.
28	42290 - Natural Mixed Pine	High Density Pole	9.1	82		Trace amounts of red maple, aspen and tamarack
29	42210 - Natural Red Pine	High Density Log	6.9	62	81-110	
30	42220 - Natural Jack Pine	High Density Pole	4.0	79		
32	4133 - Aspen, Mixed Pine	High Density Sapling	10.4	16		
33	4136 - Aspen, Mixed Conifer	High Density Sapling	21.7	16		
34	42290 - Natural Mixed Pine	High Density Log	9.6	82		
35	4130 - Aspen	High Density Pole	4.1	38		
36	42290 - Natural Mixed Pine	High Density Log	1.9	90	111-140	
37	42260 - Natural Pine, Mixed Deciduous	High Density Pole	22.4	28		
38	42210 - Natural Red Pine	High Density Log	15.3	74	111-140	
39	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	19.0	79		
40	429 - Mixed Upland Conifers	High Density Log	9.2	94		
41	42290 - Natural Mixed Pine	High Density Sapling	6.2	6		

S t	Shingleto	n Mgt. Unit		5 – Fo	prested Stands	Compartment: 040 Year of Entry: 2013	DRR DRR DRR
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	Anchigan .
42	42220 - Natural Jack Pine	High Density Sapling	41.8	14			
44	4130 - Aspen	High Density Sapling	5.5	6			
45	42260 - Natural Pine, Mixed Deciduous	High Density Sapling	3.7	6			
46	4133 - Aspen, Mixed Pine	High Density Pole	14.5	38			
48	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	46.0	96			
49	42220 - Natural Jack Pine	Medium Density	36.3	17			
50	6120 - Lowland Cedar	High Density Pole	15.0	124			
51	6125 - Lowland Black Spruce, Jack Pine	High Density Pole	6.7	84			
54	42220 - Natural Jack Pine	High Density Log	15.5	72			
55	6122 - Black Spruce	Medium Density Pole	8.2	98			
56	6122 - Black Spruce	Medium Density Pole	18.0	98			
57	6121 - Tamarack	Low Density Sapling	14.9	60			
58	42220 - Natural Jack Pine	High Density Pole	19.8	41			
59	42220 - Natural Jack Pine	High Density Sapling	29.6	26			
61	6139 - Mixed Lowland Forest	High Density Pole	40.3	94			
62	6125 - Lowland Black Spruce, Jack Pine	High Density Pole	10.8	82			
64	6122 - Black Spruce	Medium Density Pole	2.6	65			
65	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	34.4	68			

S t	Shingleto	n Mgt. Unit		5 – Fo	prested Stands	Compartment: 040 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
67	6122 - Black Spruce	Low Density Sapling	11.1	82		Low site index site with a few merchantable trees
68	6121 - Tamarack	High Density Pole	11.3	109		
69	6125 - Lowland Black Spruce, Jack Pine	Medium Density	24.6	26		
70	42220 - Natural Jack Pine	High Density Sapling	44.9	17		Excellent regeneration, mostly upland.
71	42290 - Natural Mixed Pine	High Density Pole	14.4	81	1-50	
72	6122 - Black Spruce	High Density Pole	5.1	65		
73	6122 - Black Spruce	Medium Density Pole	20.2	92		
75	6122 - Black Spruce	Medium Density Pole	20.0	86		
76	42290 - Natural Mixed Pine	High Density Log	7.9	100	81-110	
78	42290 - Natural Mixed Pine	High Density Pole	3.1	82	81-110	
79	42220 - Natural Jack Pine	High Density Sapling	60.5	17		Excellent regeneration, mostly upland.
81	6122 - Black Spruce	Medium Density Pole	3.3	88		
82	42290 - Natural Mixed Pine	High Density Pole	2.5	82		
84	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	4.0	88		

Shingleton Mgt. Unit

#### 6 – Nonforested Stands

Compartment: 040

Year of Entry: 2013



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
17	623 - Emergent Wetland	794.3	N\A	Unspecified	
22	623 - Emergent Wetland	6.1	N\A	Unspecified	
25	623 - Emergent Wetland	10.4	N\A	Unspecified	
27	623 - Emergent Wetland	4.7	N\A	Unspecified	
31	623 - Emergent Wetland	14.7	N\A	Unspecified	
43	790 - Other Bare/Sparsely Vegetate	10.1	Natural Regen	Lowland Conifers	Stand just harvested
47	623 - Emergent Wetland	1.8	N\A	Unspecified	
52	790 - Other Bare/Sparsely Vegetate	69.9	Natural Regen	Lowland Conifers	Stand just harvested
53	622 - Lowland Shrub	6.8	N\A	Unspecified	
60	623 - Emergent Wetland	0.7	N\A	Unspecified	
63	3103 - Rubus-Fern	52.6	Natural Regen	Jack Pine	Stand is a managed site scarified for jack pine regen in 2010.
66	6224 - Treed Bog	43.1	N\A	Unspecified	
74	623 - Emergent Wetland	8.8	N\A	Unspecified	
77	6224 - Treed Bog	135.7	NVA	Unspecified	
80	623 - Emergent Wetland	4.1	N\A	Unspecified	
83	6224 - Treed Bog	20.5	N\A	Unspecified	



## 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	
SCA	SCA Cold Water Stream A coldwater stream has temperature and dissolved oxygen conditions that allow natu stocked trout populations and those of other coldwater fish species (e.g., slimy sculpi year to year. Coldwater streams in Michigan typically provide these conditions due to contributions of groundwater to their stream flows. Such streams are established by I designated as trout resources by Fisheries Order 210.			
and Waterfowl Production Areas, deer wintering complex openings and savannas. Habitat areas are distinct from o endangered or threatened species (such as Kirtland's wa general in nature, are not primarily associated with threat		An area that provide some specific need for the life cycle of wild and Waterfowl Production Areas, deer wintering complexes in lo openings and savannas. Habitat areas are distinct from critical endangered or threatened species (such as Kirtland's warbler o general in nature, are not primarily associated with threatened o covered by species recovery plans that are developed in coope	owland conifer communities, grassland habitat designated for recovery of or piping plover areas) in that they are more or endangered species, and are not	





