

Revision Date: 8/2011

Stand Examiner: Mario Molin

Legal Description: T46N R13W Sections 4 - 8, 17 and 18

RMU (if applicable):

Management Goals: To provide multiple use benefits for the citizens of Michigan.

**Soil and Topography:** Flat to gently rolling terrain, except for the steep banks (up to 55% slope) above the floodplains of the Fox River and the East Branch Fox River. There are also several meandering eskers with relatively steep slopes.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** This compartment contains 1160 acres of private land within its boundaries, and one privately-owned structure. The state land is in two large blocks and two smaller parcels (one 40 acres, one 80 acres). There are large blocks of state-owned land on all sides of the compartment.

**Unique, Natural Features:** The compartment is bounded by the Fox River to the southwest, and the East Branch Fox River flows through the northeast corner.

Archeological, Historical, and Cultural Features: None known at this time.

**Special Management Designations or Considerations:** Both the Fox River and the East Branch Fox River are part of the Michigan Natural River System; management considerations are defined in the Fox River Plan.

**Watershed and Fisheries Considerations:** Excellent. The East Branch Fox River is classified First Quality Cold Water (FQCW). In fact, the stretch of the East Branch upstream from M-77 contains the largest average size brook trout in the Eastern Upper Peninsula. Fisheries Division maintains two sand traps, one just upstream from the M-77 bridge and one off the woods road just north of the plateau immediately north of the bridge. Gronden Creek is classified Second Quality Cold Water (SQCW).

**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 degrees F. Annual snowfall in this area averages between 120 and 140 inches. General Land Office (GLO) Surveyor notes indicate that the upland forest contained a mixture of hemlock, white pine, beech, and yellow birch. The lowland forest primarily consisted of cedar, black spruce, and tamarack. Windthrow, fire and beaver ponding along Gronden creek and the Fox River provided the primary sources of natural disturbance. Although not the dominant species, white pine is becoming reestablished within the compartment. Red pine plantations, aspen, and grassy opening provide the majority of the upland cover types within the compartment. Lowlands continue to contain cedar, black spruce, and to a lesser extent tamarack, and red pine and white pine. Wildlife habitat objectives include retaining space for openland species, providing supercanopy pines within aspen cuttings, protecting oak and hemlock, providing a corridor along the Fox River, and maintaining closed canopy swamp conifer forest. Gray Wolves (Federal and Michigan endangered), moose (Michigan special concern) and sharp-tailed grouse (Michigan special concern) have all been known to utilize the habitat within this compartment. Other species of interest include brown thrasher, smooth green snake, kestrel, red squirrel, and porcupine.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium, peat and muck and minor lacustrine (lake) sand and gravel. There is 100 feet of local relief in the compartment, mostly on the north end. There is insufficient data to determine the glacial drift thickness. The Ordovician Utica and Collingwood Shales and Trenton Group subcrop below the glacial drift. The Trenton is used for dolomite/stone elsewhere in the UP. Gravel pits at not found in the general area and potential appears to be limited. There is no commercial oil and gas production in the UP.

**Vehicle Access:** Dutch Fred Lake Rd. and Sunken Lake Rd. provide good access to the north half of the compartment. Access to the smaller state-owned parcels is complicated by a lack of roads and difficult terrain. The southern block of state land is also difficult to reach because much of it consists of low, wet terrain, and reasonable access requires crossing private lands and/or placing a number of culverts etc.

Survey Needs: None known at this time.

**Recreational Facilities and Opportunities:** The travel routes to the public access site at Dutch Fred Lake and to Sunken Lake (dispersed recreational opportunities) pass through this compartment. The area is also subject to heavy hunting pressure during deer season.

Fire Protection: See comments under Vehicle Access.

## **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

Mario Molin : Examiner

## Compartment 110 Year of Entry 2013



							Age	Class									
	Nor	Desteon	0°2	6 <sup>1</sup> .0	10 <sup>-12</sup>	50, 50, 50, 50, 50, 50, 50, 50, 50, 50,	10 <sup>-10</sup>	IS.		101	8 <sup>3</sup> 8	6	601.001 ·	10°.12	10× 150	AND A	100,00
Aspen	0	0	135	98	236	5	2	0	19	0	0	0	0	0	0	495	ĺ
Cedar	0	0	0	0	0	0	0	0	0	0	10	49	0	365	0	424	
Herbaceous Openland	258	0	0	0	0	0	0	0	0	0	0	0	0	0	0	258	
Jack Pine	0	0	19	5	16	5	5	4	4	2	0	0	0	0	0	59	
Low-Density Trees	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	
Lowland Conifers	0	23	0	0	15	20	0	105	0	0	3	0	0	0	0	166	
Lowland Mixed Forest	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6	
Lowland Shrub	138	0	0	0	0	0	0	0	0	0	0	0	0	0	0	138	
Lowland Spruce/Fir	0	0	109	0	0	12	4	101	144	119	12	0	0	0	0	501	
Marsh	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	9	
Natural Mixed Pines	0	0	0	0	0	3	43	0	0	43	39	0	0	0	0	128	
Paper Birch	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	8	
Red Pine	0	0	0	0	1	175	81	38	74	0	19	7	0	0	0	395	
Sand, Soil	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
Tamarack	0	0	0	0	5	19	57	11	0	0	0	0	0	0	0	93	
Treed Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Upland Mixed Forest	0	0	0	0	0	0	114	0	0	0	0	7	0	0	0	121	
Upland Spruce/Fir	0	0	0	0	0	0	7	0	5	0	0	0	0	0	0	12	
Water	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
White Pine	0	0	0	0	2	0	0	4	0	0	35	3	0	0	0	44	
Total	546	23	263	109	276	238	313	264	254	172	119	65	0	365	0	3007	



# Table 2 – Proposed Treatment Summaries

MICHIGAN .	Shingleton Mgt. Unit Year of Entry 2013									Compartment Total Compartment Acres:	110 3007
			A	cres by <sup>-</sup>	<b>Freatm</b>	ent Ty	ре				
	Commercial Harvest - 445 Habitat Cut - 106	ance - 0	Tree Planting - 0 nce - 0 Tree Seeding - 0				Prescribed Burn - 0 Pesticide - 0		Other - 0		
				Cover Ty	pe by I	Harves	st Meth	od			
	Aspen Cedar Herbace Jack Pin Lowland Natural Paper B Red Pine	ous Openland ne I Shrub I Spruce/Fir Mixed Pines irch e	3         3	Jo         Jo           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           7         0	1         0         5           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		19 48 6 5 106 73 11 3 274	So to		
	Upland I	Mixed Forest	0	/ 0	0	0	0	7			
		lotal	394	7 3	0	147	0	550			

S t		Shing	gleton Mgt. Unit	Table 3 wi	Tre th No L	atments Pre _imiting Fac	escribed tor	Compartment: 110 Year of Entry 2013	AND INATURE PROVINCION
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	41110001-Cut	68.0	42110 - Planted Red Pine	High Density Pole	40	Harvest	Low Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
Presc Specs	<u>ription</u> Thin to <u>s:</u>	80BA, cu	t all jack pine and ope	en up around oak tre	es.				
<u>Other</u> Comn	- <u>nents:</u>								
<u>Next</u> Steps	Monitor	according	g to work instructions	i.					
2	41110002-Cut	19.0	4130 - Aspen	Low Density Pole	76	Harvest	Clearcut with Reserves	3102 - Grass	Cmpt. Review Proposal
Presc Specs	<u>ription</u> Clearcu <u>::</u>	t with oak	reserved.						
<u>Other</u> Comn	Old G-t	ype that h with wildl	as grown in with asp ife about consolidatin	en, birch and pine. ig/swaping these sta	inds.				
<u>Next</u> <u>Steps</u>	In this e grass b Plant th	entire sale ased on 2 e 95 acre	e area consolidate gra 2003 Inventory. Crea es to jack pine. Monito	ass and forested, con te one large grass o or according to work	nvert red pening o instructio	pine to jack pin long road to nor ons.	e. Total area is approx th and have it match up	imately 165 cres, 95 fore with openings on north	sted and 70 side of road.
3	41110003-Cut	10.9	42260 - Natural Pine, Mixed Deciduous	Medium Density Log	93	Harvest	Clearcut with Reserves	42140 - Planted Mixed Pine	Cmpt. Review Proposal
Presc Specs	<u>ription</u> Clearcu <u>s:</u>	t with oak	reserved.						
<u>Other</u> Comn	Talking	with wildl	ife about consolidatin	ng/swaping these sta	inds.				
<u>Next</u> <u>Steps</u>	Scarify Monitor	and plant according	alternate rows/ group g to work instructions	p of rows with red pire.	ne and w	hite pine.			
6	41110006-Cut	4.6	42220 - Natural Jack Pine	Medium Density Pole	41	Harvest	Clearcut with Reserves	3102 - Grass	Cmpt. Review Proposal
Presc Specs	ription_Clearcu s:	t, convert	back to grass openir	ng.					
<u>Other</u> Comn	Talking	with wildl	ife about consolidatin	ng/swaping these sta	inds.				
<u>Next</u> Steps	In this e grass b Plant th	entire sale ased on 2 e 95 acre	e area consolidate gra 2003 Inventory. Crea es to jack pine. Monito	ass and forested, con te one large grass o or according to work	nvert red pening o instructio	pine to jack pin long road to nor ons.	e. Total area is approx th and have it match up	imately 165 cres, 95 fore with openings on north	sted and 70 side of road.
8	41110008-Cut	84.3	42110 - Planted Red Pine	High Density Pole	42	Harvest	Clearcut with Reserves	42110 - Planted Red Pine	Cmpt. Review Proposal
Presc Specs	ription_Clearcu s:	t with oak	c reserved.						
<u>Other</u> Comn	Talking	with wildl	ife about consolidatin	ng/swaping these sta	inds.				
<u>Next</u> Steps	In this e grass b Plant th	entire sale ased on 2 e 95 acre	e area consolidate gra 2003 Inventory. Crea s to jack pine. Monito	ass and forested, contend te one large grass on te one large grass on for according to work	nvert red pening o instructio	pine to jack pin long road to nor ons.	e. Total area is approx th and have it match up	imately 165 cres, 95 fore with openings on north	sted and 70 side of road.

S t		Shingleton Mgt. Unit		Table 3 wi	Tre th No L	atments Pro	escribed ctor	Compartment: 110 Year of Entry 2013	DR NATURAL PLAN
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
14	41110014-Cu	t 23.1	42110 - Planted Red Pine	Medium Density Pole	60	Harvest	Clearcut	3102 - Grass	Cmpt. Review Proposal
Presc Specs	<u>ription</u> Clearc <u>s:</u>	ut with oa	k reserved.						
<u>Other</u> Comn	_ Talking nents:	g with wild	llife about consolidatin	g/swaping these sta	ands.				
<u>Next</u> Steps	In this <u>:</u> grass l Plant t	entire sale based on the 95 acre	e area consolidate gra 2003 Inventory. Creat es to jack pine. Monito	ss and forested, co e one large grass o r according to work	nvert red opening o instruction	pine to jack pir long road to no ons.	ne. Total area is appro rth and have it match u	ximately 165 cres, 95 fore p with openings on north	sted and 70 side of road.
16	41110016-Cu	<b>t</b> 3.1	4140 - Other Upland Deciduous	High Density Pole	978	Harvest	Seed Tree	4193 - Birch, Aspen	Cmpt. Review Proposal
Presc Specs	<u>ription</u> Seed t <u>s:</u>	ree cut to	30 BA and Rx burn. N	lo reserve because	of small	acrage.			
Other Comn <u>Next</u> Steps	n <u>ents:</u> Monito	r accordir	ng to work instructions	. Would like to hav	e birch re	generate but a	ny mix of species curre	ntly on site is acceptable.	
17	41110017-Cu	<b>t</b> 19.6	42110 - Planted Red Pine	Low Density Pole	40	Harvest	Clearcut with Reserves	42110 - Planted Red Pine	Cmpt. Review Proposal
Presc Specs	ription_Clearc	ut with oa	k reserved.						
<u>Other</u> Comn	_ Talking nents:	g with wild	llife about consolidatin	g/swaping these sta	ands.				
<u>Next</u> Steps	In this <u>:</u> grass l Plant t	entire sale based on t he 95 acre	e area consolidate gra 2003 Inventory. Creat es to jack pine. Monito	ss and forested, co te one large grass o r according to work	nvert red opening o instructio	pine to jack pir long road to no ons.	ne. Total area is appro rth and have it match u	ximately 165 cres, 95 fore p with openings on north	ested and 70 side of road.
32	41110032-Cu	t 15.7	6122 - Black Spruce	High Density Pole	83	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
Presc Specs	<u>ription</u> Clearc <u>s:</u>	ut with ce	dar reserved.						
<u>Other</u> Comn	- nents:								
<u>Next</u> Steps	Monit :	or accord	ing to work instruction	S.					
54	41110054-Cu	<b>t</b> 13.5	6122 - Black Spruce	High Density Pole	87	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
Presc Specs	<u>ription</u> Clearc	ut with ce	dar reserved.						
<u>Other</u> Comn	- nents:								
<u>Next</u> Steps	Monito	r accordir	ng to work instructions						

Shingleton Mgt. Unit

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

Compartment: 110 Year of Entry 2013

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Status

a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
63 4	11110063-Cut	78.5	42110 - Planted Red Pine	High Density Pole	54	Harvest	Low Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescri</u> Specs:	<u>ption</u> Thin to	90BA							
<u>Other</u> Comme	Density ents:	is very v	ariable in the stand.						
<u>Next</u> <u>Steps:</u>	Monitor	accordin	g to work instructions.						
81 4	11110081-Cut	3.4	6122 - Black Spruce	High Density Pole	65	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
Prescrij Specs:	<u>ption</u> clearcut	with ced	lar reserved.						
<u>Other</u> Comme	treatmer ents:	nt area m	nay be smaller than th	e stand due to trees	being s	maller on east si	de.		
<u>Next</u> <u>Steps:</u>	monitor	accordin	g to work instructions.						
130 4	1110130-Cut	7.0	4319 - Mixed Upland Forest	Medium Density Pole	102	Harvest	Single Tree Selection	4319 - Mixed Upland Forest	Cmpt. Review Proposal
<u>Prescri</u> Specs:	<u>ption_</u> Cut all a	ispen an	d jack pine, mark the i	rest down to 40BA a	nd Rx bi	urn to promote bi	rch regneration.		
<u>Other</u> Comme	ents:								
<u>Next</u> Steps:	Monitor	accordin	g to work instructions.						
164	41110164- Cut_small	47.8	6120 - Lowland Cedar	High Density Pole	123	Harvest	Clearcut	6120 - Lowland Cedar	Cmpt. Review Proposal
<u>Prescri</u> Specs:	ption_Strip cle	arcuts of	f varying widths east/w	vest with 2 block cu	ts of app	o. 3 and 5 acres.			
<u>Other</u> Comme	ents:								
<u>Next</u> <u>Steps:</u>	Monitor	accordin	g to work instructions.						
175 4	11110175-Cut	40.1	6122 - Black Spruce	High Density Pole	68	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
Prescrij Specs:	ption Clearcut	t with ceo	dar reserved.						
<u>Other</u> Comme	consider	r moving	th redline inborad to p	oossible reduce tag	alder est	ablishing.			
<u>Next</u> <u>Steps:</u>	Monitor	accordin	g to work instructions.						

S t		Shing	leton Mgt. Unit	Table V	3 Trea with No L	atments Pres imiting Fact	scribed or	Compartment: 110 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	
12	NF_41110012- Cut	2.3	Non-Forested		0	Harvest	Clearcut with Reserves	3102 - Grass	Cmpt. Review Proposal	
Pres Spec	<u>cription</u> Clear cu : <u>s:</u>	t with oak	reserved.							
<u>Othe</u> <u>Com</u>	<u>r</u> ments:									
<u>Next</u> Step	In this er s: grass ba Plant the	ntire sale sed on 20 95 acres	area consolidate grass 003 Inventory. Create s to jack pine. Monitor	s and forested, o one large grass according to wo	convert red s opening ol ork instructio	pine to jack pine ong road to nort ons.	<ul> <li>Total area is approx h and have it match u</li> </ul>	kimately 165 cres, 95 fore p with openings on north	ested and 70 side of road.	
18	NF_41110018- Cut	1.8	Non-Forested		0	Harvest	Clearcut with Reserves	3102 - Grass	Cmpt. Review Proposal	
Pres Spec	<u>cription</u> clearcut <u>s:</u>	with oak	reserved.							
<u>Othe</u> <u>Com</u>	<u>r</u> ments:									
<u>Next</u> Step	In this er <u>s:</u> grass ba Plant the	ntire sale sed on 20 95 acres	area consolidate grass 003 Inventory. Create s to jack pine. Monitor	s and forested, o one large grass according to wo	convert red s opening ol ork instructio	pine to jack pine ong road to nort ons.	<ul> <li>Total area is approx h and have it match u</li> </ul>	kimately 165 cres, 95 fore p with openings on north	ested and 70 side of road.	
20	NF_41110020- Cut	1.9	Non-Forested		0	Harvest	Clearcut with Reserves	3102 - Grass	Cmpt. Review Proposal	
Pres Spec	<u>cription</u> Clearcut <u>s:</u>	with oak	reserved.							
<u>Othe</u> Com	<u>r</u> ments:									
<u>Next</u> Step	In this er <u>s:</u> grass ba Plant the	ntire sale sed on 20 95 acres	area consolidate grass 003 Inventory. Create s to jack pine. Monitor	s and forested, o one large grass according to wo	convert red s opening ol ork instructio	pine to jack pine ong road to nort ons.	<ul> <li>Total area is approx h and have it match u</li> </ul>	kimately 165 cres, 95 fore p with openings on north	ested and 70 side of road.	
174	NF_41110174- Cut	105.7	Non-Forested		0	Harvest	Clearcut	622 - Lowland Shrub	Cmpt. Review Proposal	
Pres Spec	<u>cription</u> Clearcut <u>:s:</u>	area. C	learcut tag alder if mai	rkets devleop or	r treat non c	ommercially.				
<u>Othe</u> Com	<u>r</u> ments:									
<u>Next</u> Step	<u>S:</u>									
A	Total Treatmer creage Propose	nt d: 55	0.3							

S t		Shingle	eton Mgt. Unit	Table 4	<ul> <li>Treatme a Limiti</li> </ul>	ents Prescrib ng Factor	ed with	Compartment: 110 Year of Entry 2013	DNR NATURAL PROPERTY OF
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error						
Preso Spec	<u>pription</u> s:								
<u>Other</u> Comr	ment:								
<u>Next</u> Steps	<u>::</u>								
<u>Limiti</u> Treat	ng Factor and No ment Reason	<u>)</u>							
A	Total Treatmen creage Proposed	t d:	0						

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

Year of Entry: 2013



Treatme Name	nt	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
41022_Ou OE-Cu	tOfY t	35.6				Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
Prescription Specs:	3rd r	ow thinnin	g. Cut all trees in des	signated rows. R	ows can be	e spaced wider	apart in areas with lower	basal area. Do not cut	hemlock and oak.
<u>Other</u> Comments:	Do n	ot cut any	trees within 50 feet o	of the West Bran	ich Manistio	que River.			
<u>Next</u> <u>Steps:</u>	Thin	next year	of entry.						
41049_Ou OE_1-C	tOfY ut	4.7				Harvest	Single Tree Selection	42290 - Natural Mixed Pine	Cmpt. Review Proposal
Prescription Specs:	Mark mark	red pine a red to 80.	and white pine to 30 Cut all other species	sq. ft. Create ga except hemlock	ps in canop and oak if	by for regenerat present.	ion where pine exists. Ar	eas that have thicker y	oung poles can be
<u>Other</u> Comments:	Acce	ess to stan	d is too difficult for co	ontinuous thinnir	ıg.				
<u>Next</u> <u>Steps:</u>	Rege	eneration v	valkthrough during ne	ext inventory cyc	ele. Accepta	able regeneration	on includes any species r	nixture currently found	onsite.
41053_Ou OE-Cu	tOfY t	10.2				Harvest	Single Tree Selection	42290 - Natural Mixed Pine	Cmpt. Review Proposal
Prescription Specs:	Mark mark	red pine a red to 80.	and white pine to 30 Cut all other species	sq. ft. Create ga except hemlock	ps in canop and oak if	by for regenerat present.	ion where pine exists. Ar	eas that have thicker y	oung poles can be
<u>Other</u> Comments:	Acce	ess to stan	d is too difficult for co	ontinuous thinnir	ıg.				
<u>Next</u> Steps:	Rege	en walkthro	ough during next inve	entory cycle. Acc	eptable reg	generation inclu	ides any species mixture	currently found onsite.	
Total	Treat	ment							

Acreage Proposed: 50.5

S t	Shingleto	n Mgt. Unit		5 – Fo	prested Stan	ds Compartment: 110 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42110 - Planted Red Pine	High Density Pole	68.0	40	111-140	Has small pocket of natural Jack and Red Pine. Pine is 3-4 sticks tall.
						RP: 110 140 70 200 WP: 0 10 10 0
2	4130 - Aspen	Low Density Pole	19.0	76	1-50	Some oak in stand.
						BT.ASP: 20 20 RP: 20 0 0AK: 10 WP: 20
3	42260 - Natural Pine, Mixed Deciduous	Medium Density Log	10.9	93	1-50	Some oak in stand.
						WP; 10 10 PB; 10 20 OAK; 0 0 10
4	6122 - Black Spruce	Low Density Pole	3.5	96	1-50	Part of recent cut.
5	6122 - Black Spruce	Medium Density Pole	2.4	88	1-50	
6	42220 - Natural Jack Pine	Medium Density Pole	4.6	41	1-50	
8	42110 - Planted Red Pine	High Density Pole	84.3	42	81-110	Density is patchy in areas.
						RP: 150 150 70 80 70 0ak: 10 JP: 10
9	42210 - Natural Red Pine	Medium Density Log	13.2	73	1-50	Steep ridge.
11	42320 - Upland Spruce	High Density Pole	4.8	73	51-80	
13	42290 - Natural Mixed Pine	Medium Density Log	4.7	92	1-50	Older cut with spruce ad white pine seedlings, red, white pine and birch reserved.
14	42110 - Planted Red Pine	Medium Density Pole	23.1	60	1-50	Spacious plantaion, portions failed, next to grass openings that are filling in, would like to do some consolidating.
15	6122 - Black Spruce	Medium Density Pole	11.3	88	1-50	
16	4140 - Other Upland Deciduous	High Density Pole	3.1	78	1-50	
17	42110 - Planted Red Pine	Low Density Pole	19.6	40	1-50	Portion of stand is failed plantation and the rerst is opening that is converting to forest, with red, white, jack pine and oak. Part of area where consolidating the stand types may be desirable

S t	Shingleto t	n Mgt. Unit		5 – Fo	prested Sta	nds Compartment: 110 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	42210 - Natural Red Pine	High Density Log	4.2	68	51-80	
22	6127 - Lowland Pine	High Density Log	3.4	98	1-50	
23	4130 - Aspen	High Density Sapling	8.3	30		
25	4133 - Aspen, Mixed Pine	High Density Sapling	89.5	11	1-50	Same as stand 23 (previous inventory had them as one)but with aspen tsi work done in 2000.
26	42260 - Natural Pine, Mixed Deciduous	Medium Density Log	23.3	94	1-50	
27	6129 - Mixed Coniferous Lowland Forest	Low Density Sapling	22.8	8		Pines were left as reserve.
29	6122 - Black Spruce	High Density Pole	2.3	63	51-80	
30	4130 - Aspen	High Density Sapling	39.5	30	1-50	
31	42200 - Natural White Pine	Low Density Log	1.0	100	1-50	ridge with few scattered trees.
32	6122 - Black Spruce	High Density Pole	15.7	83	111-140	Good cedar and balsam fir regeration in canopy gaps. Spruce is about 8 inches and 4-5 sticks tall.
33	42200 - Natural White Pine	Low Density Log	1.9	100	1-50	ridge with scattered trees.
34	4311 - Pine, Aspen Mix	High Density Log	113.6	52	1-50	
36	42220 - Natural Jack Pine	High Density Pole	1.0	20	1-50	
39	6122 - Black Spruce	High Density Pole	14.5	78	51-80	
40	6122 - Black Spruce	High Density Pole	8.2	76	51-80	
41	42220 - Natural Jack Pine	High Density Pole	1.3	35	51-80	
43	6122 - Black Spruce	Medium Density	2.1	47		Spruce bog.
44	4130 - Aspen	High Density Sapling	24.3	30		

S t	Shingleto	n Mgt. Unit		5 – Fo	orested Sta	nds Compartment: 110 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
47	6120 - Lowland Cedar	High Density Pole	6.1	98	1-50	Network of drainages in the stand.
48	6122 - Black Spruce	Medium Density Pole	3.0	78	1-50	Fairly open with mainly submerchentable spruce and red maple regen.
50	6122 - Black Spruce	Medium Density	4.0	58	1-50	
51	6122 - Black Spruce	High Density Pole	5.6	93	81-110	Meets criteria to be cut but small in acreage and is surrounded by non forested.
53	4130 - Aspen	High Density Sapling	90.2	30		Poor quality aspen- very stunted and diseased with black knot. same as 33 and 37
54	6122 - Black Spruce	High Density Pole	13.5	87	81-110	Mixed stand with good cedar regenerating in openings. More cedar and fir to the south.
						BS: 90 50 0 Ced:10 50 20 WP: 10 30 0 Hem:10 0 0 Tam:0 0 10
55	6122 - Black Spruce	Medium Density	1.5	76	1-50	Spruce bog.
56	4140 - Other Upland Deciduous	High Density Pole	5.2	79	51-80	
57	4134 - Aspen, Spruce/Fir	Low Density Pole	1.7	23	1-50	Small ridge.
58	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	8.5	81	81-110	Difficult access and very steep slopes.
59	6122 - Black Spruce	Medium Density	9.2	67	1-50	
60	6122 - Black Spruce	High Density Pole	2.4	81	51-80	
61	6121 - Tamarack	Low Density Sapling	6.7	45		Bog type.
62	6120 - Lowland Cedar	High Density Pole	4.7	130	81-110	
63	42110 - Planted Red Pine	High Density Pole	78.5	54	111-140	Varies for 2-4 sticks across the stand. RP: 110 90 100 170 100 WP: 10
65	42200 - Natural White Pine	High Density Pole	2.1	34	1-50	

S t	Shingleto		5 – Fo	prested Sta	nds Compartment: 110 Year of Entry: 2013	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
66	42260 - Natural Pine, Mixed Deciduous	Low Density Sapling	2.6	48	1-50	Some scattered oak.
67	42290 - Natural Mixed Pine	Medium Density Log	42.9	89	81-110	Ridge system.
68	4130 - Aspen	High Density Sapling	1.1	25		
69	6122 - Black Spruce	Medium Density Pole	2.0	86	1-50	kettle hole wit spruce and pine, edges have some bigger trees.
70	6122 - Black Spruce	High Density Pole	15.9	86	51-80	Medium stocking.
71	4130 - Aspen	High Density Pole	2.0	54	51-80	
72	42220 - Natural Jack Pine	High Density Pole	1.7	21	1-50	Kettle hole with spruce and pine, edges have bigger trees.
73	42210 - Natural Red Pine	Medium Density Log	2.8	48	1-50	
75	4130 - Aspen	High Density Sapling	1.1	25	1-50	
76	6122 - Black Spruce	Medium Density	1.0	85		Spruce bog, trees all submerchantable and rings to close to count.
78	42220 - Natural Jack Pine	Medium Density Pole	1.7	82	81-110	
79	4130 - Aspen	Medium Density	1.1	25		
81	6122 - Black Spruce	High Density Pole	3.4	65	81-110	Old OI held till this entry, trees are not growing.
82	4130 - Aspen	High Density Sapling	33.2	25	51-80	
83	42210 - Natural Red Pine	Low Density Log	4.1	63	1-50	Recently seed tree cut.
84	42220 - Natural Jack Pine	Medium Density Pole	2.1	22	1-50	
85	4130 - Aspen	Medium Density	6.6	33		
86	4130 - Aspen	High Density Sapling	4.9	25		

S t	Shingletor		5 – Fo	prested Sta	Inds Compartment: 110 Year of Entry: 2013		
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
88	6122 - Black Spruce	High Density Pole	2.9	97	1-50	Open stunted trees.	
89	42110 - Planted Red Pine	High Density Pole	2.5	62	111-140		
90	4132 - Aspen, Jack Pine	Medium Density Pole	1.2	25	1-50		
91	42110 - Planted Red Pine	High Density Pole	2.0	54	111-140		
92	6124 - Lowland Spruce- Fir	High Density Pole	61.1	68	81-110	3-4 sticks trees cored are not showing much growth. Could cut but runs along the "Fox river buffer"	
93	4130 - Aspen	High Density Pole	3.8	33	1-50		
94	6122 - Black Spruce	Low Density Sapling	6.8	71	1-50	Very wet stand trees are stunted, poorly stocked with trees 20-30 ft with 1 stick.	
95	42110 - Planted Red Pine	High Density Pole	1.4	33	51-80		
96	6122 - Black Spruce	Medium Density	24.2	12	1-50		
97	6123 - Lowland Fir	Medium Density Pole	6.4	63	1-50	Low volume and quality.	
99	4130 - Aspen	Low Density Sapling	7.1	25			
100	4130 - Aspen	Low Density Pole	22.5	25			
101	4130 - Aspen	High Density Sapling	7.1	17			
102	6122 - Black Spruce	High Density Pole	5.2	67	81-110	Cut next entry, trees cored show little growth.	
104	4130 - Aspen	High Density Sapling	1.2	25			
107	4130 - Aspen	Medium Density	2.0	25			
108	4130 - Aspen	High Density Pole	4.6	47	1-50		
109	4130 - Aspen	High Density Pole	58.6	33	1-50		

S t	Shingleto		5 – Fo	prested Stands	S Compartment: 110 Year of Entry: 2013	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
111	6120 - Lowland Cedar	High Density Pole	37.3	100	51-80	Good cedar regeneration in open areas.
112	42220 - Natural Jack Pine	High Density Pole	10.7	32	1-50	
114	42220 - Natural Jack Pine	High Density Pole	3.9	32	51-80	
115	4130 - Aspen	High Density Pole	5.2	37	1-50	
116	6122 - Black Spruce	Low Density Pole	5.4	67		Spruce bog.
117	6122 - Black Spruce	High Density Pole	3.2	83	81-110	
119	4130 - Aspen	High Density Pole	4.1	28		
120	4130 - Aspen	High Density Sapling	6.9	25		
121	6122 - Black Spruce	High Density Pole	4.5	63	51-80	
122	6120 - Lowland Cedar	Medium Density Pole	40.2	134	1-50	
123	6120 - Lowland Cedar	High Density Pole	25.9	128	51-80	
125	6124 - Lowland Spruce- Fir	Medium Density Pole	15.1	34		Was not able to get to this stand, data is from previous OI
126	6120 - Lowland Cedar	High Density Pole	3.7	97	51-80	
127	42200 - Natural White Pine	High Density Log	35.3	94	51-80	
128	42210 - Natural Red Pine	High Density Log	5.9	73	81-110	
129	42210 - Natural Red Pine	High Density Pole	6.7	106	51-80	
130	4319 - Mixed Upland Forest	Medium Density Pole	7.0	102	81-110	Low density mmixed stand. PB: 70 30 40 ASP:30 WP: 0 20 0 RO: 0 30 0 PN: 00 0

S t	Shingleto		5 – Fo	prested Sta	nds Compartment: 110 Year of Entry: 2013	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
132	42290 - Natural Mixed Pine	High Density Pole	41.0	55	111-140	Mix of species, looks to be more all aged.
133	42210 - Natural Red Pine	Low Density Log	12.5	90	1-50	
135	4130 - Aspen	Low Density Sapling	37.4	10		
138	6121 - Tamarack	High Density Pole	10.9	65	1-50	
139	6121 - Tamarack	Medium Density Pole	9.9	51	1-50	
140	6122 - Black Spruce	High Density Pole	21.0	76	51-80	Edge is heavier with tamarack, with more spruce in the middle (3- 4 sticks) Some cedar and birch on the north end.
141	42210 - Natural Red Pine	High Density Log	4.0	60	1-50	
142	6120 - Lowland Cedar	High Density Log	11.6	100	111-140	
143	4133 - Aspen, Mixed Pine	High Density Sapling	9.9	25	1-50	
144	42220 - Natural Jack Pine	High Density Sapling	5.4	10		
145	6122 - Black Spruce	Low Density Pole	34.8	75	1-50	Mostly sub merchantable and very difficult to access. cored trees but unable to count such dense rings.
146	42200 - Natural White Pine	Low Density Log	4.0	60	1-50	
147	6122 - Black Spruce	Medium Density Pole	8.3	78	1-50	Looks to have had all merchantable wood cut out. Some fingers of advanced regeneration with younger regeneration in between. Lots of jack pine regeneration. Stnad gets denser to the north with pockets of aspen mixed in.
148	6122 - Black Spruce	Medium Density Pole	14.6	78	1-50	
149	6122 - Black Spruce	High Density Pole	52.0	86		Long strip along the Fox River. Fox river buffer eliminates cutting in this stand.
150	6121 - Tamarack	Medium Density	47.6	53		Must have high water table all small submerchantable trees that look like young trees but are around 50 years old.
151	42220 - Natural Jack Pine	High Density Pole	5.2	53	51-80	

S t	Shingleto		5 – Fo	orested Sta	nds Compartment: 110 Year of Entry: 2013	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
152	6139 - Mixed Lowland Forest	High Density Pole	6.3	20	1-50	
153	6122 - Black Spruce	Medium Density	76.7	10	1-50	Recently cut, Flipflops dominant densities between jack pine and black spruce.
154	6126 - Lowland Jack Pine	High Density Pole	3.7	72		
155	6122 - Black Spruce	High Density Pole	5.0	78	1-50	
156	42320 - Upland Spruce	High Density Pole	6.9	50	51-80	
157	42290 - Natural Mixed Pine	High Density Pole	2.2	57	51-80	
158	42210 - Natural Red Pine	High Density Log	55.2	73	51-80	
160	6122 - Black Spruce	High Density Pole	9.8	49	51-80	
161	42220 - Natural Jack Pine	High Density Sapling	13.5	10		Red pine superstory.
163	6122 - Black Spruce	High Density Pole	3.9	76	1-50	
164	6120 - Lowland Cedar	High Density	294.4	123	111-140	Great regeneration on east side and in openings.
		Fole				Cedar: 90 110 80 80 190 130 170 BFir: 10 10 10 Spruce: 10 30 10
166	6122 - Black Spruce	Low Density Sapling	22.7	75		
167	6121 - Tamarack	High Density Pole	5.3	33		South end transitions to higher ground with fir and white pine. Too small to map out seperate.
168	4130 - Aspen	High Density Sapling	1.4	10		
169	42210 - Natural Red Pine	High Density Log	6.9	91	51-80	
170	6128 - Lowland Coniferous, Mixed Deciduous	High Density Sapling	20.1	43	1-50	
171	6121 - Tamarack	High Density Pole	12.5	48		

S t	Shingleton Mgt. Unit			5 – Fo	orested Sta	ands Compartment: 110 Year of Entry: 2013	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
172	6122 - Black Spruce	Low Density Sapling	8.0	17			
173	42220 - Natural Jack Pine	High Density Pole	4.3	68	51-80	Bleed over from next compartment where stand is under contract.	
175	6122 - Black Spruce	High Density Pole	71.2	68	81-110	Trees are not growing, Varying size classes and heights some are 5 sticks tall. If 140 is going to be cut they will need to go through this stand.	
176	6123 - Lowland Fir	Low Density Pole	37.5	65	1-50	Tag alder site that apears to be converting to fir and aspen.	

Shingleton Mgt. Unit

#### 6 – Nonforested Stands

Compartment: 110 Year of Entry: 2013



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
7	6224 - Treed Bog	0.7	No	Unspecified	
10	6224 - Treed Bog	2.2	No	Unspecified	
12	3102 - Grass	2.3	Yes	Low (NonForested)	
18	3102 - Grass	1.8	Yes	Low (NonForested)	
20	3102 - Grass	1.9	Yes	Low (NonForested)	
21	3102 - Grass	1.9	Yes	Low (NonForested)	
24	3102 - Grass	42.3	Yes	Low (NonForested)	
28	3102 - Grass	3.3	Yes	Low (NonForested)	
35	3102 - Grass	1.9	Yes	Low (NonForested)	
37	3102 - Grass	2.6	Yes	Low (NonForested)	
38	3102 - Grass	1.8	Yes	Low (NonForested)	
42	3102 - Grass	1.0	Yes	Low (NonForested)	
45	3102 - Grass	0.7	Yes	Low (NonForested)	
46	3102 - Grass	1.1	Yes	Low (NonForested)	
49	3102 - Grass	1.4	Yes	Low (NonForested)	
52	3102 - Grass	8.4	Yes	Low (NonForested)	
64	50 - Water	1.1	No	Unspecified	
74	50 - Water	4.2	No	Unspecified	Snow and ice covered pond.

Shingleton Mgt. Unit

## 6 – Nonforested Stands

Compartment: 110 Year of Entry: 2013



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
77	3102 - Grass	166.8	Yes	Low (NonForested)	lots of small aspen islands less then 1 acre so can not be typed out.
80	50 - Water	2.2	N\A	Unspecified	Snow and ice covered pond.
87	3102 - Grass	1.0	Yes	Low (NonForested)	
98	3102 - Grass	7.4	Yes	Low (NonForested)	
103	3102 - Grass	1.3	No	Unspecified	
105	6229 - Mixed lowland shrub	6.5	Yes	Low (NonForested)	Small white pine and black spruce
106	3301 - Low Density Deciduous Tree	1.6	Yes	Low (NonForested)	
110	6229 - Mixed lowland shrub	5.4	No	Unspecified	
113	3102 - Grass	3.6	Yes	Low (NonForested)	
118	3102 - Grass	4.7	Yes	Low (NonForested)	
124	6229 - Mixed lowland shrub	18.3	No	Unspecified	
131	3102 - Grass	1.0	No	Unspecified	
134	710 - Sand, Soil	3.3	Yes	Low (NonForested)	
136	3302 - Low Density Conifer Trees	39.0	No	Unspecified	
137	3303 - Mixed Low Density Trees	4.2	Yes	Low (NonForested)	
159	6239 - Mixed Emergent Wetland	90.1	No	Unspecified	
162	6229 - Mixed lowland shrub	1.9	No	Unspecified	
165	710 - Sand, Soil	1.1	No	Unspecified	

## 6 – Nonforested Stands

Compartment: 110 Year of Entry: 2013



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:	Chide
174	6229 - Mixed lowland shrub	105.7	No	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.

Conservati Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish spec year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	itions that allow naturally-reproduced or ies (e.g., slimy sculpin) to persist from ese conditions due to substantial is are established by Director's action and
SCA	Mineral Resource Area	Areas that are primarily managed for mineral resource extraction They include both metallic and non-metallic mineral mines as we	n, on a permanent or temporary basis. ell as oil and natural gas sites.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from sp approved distance from the river centerlines. The Natural Rivers most Natural Rivers. The Vegetative Buffer ranges from 25 to 1 and Vegetative Buffers for each Natural River see the table loca folder.	patial buffers set from an established and s Zoning District is a 400 foot buffer for 00 feet. To view specific Zoning Districts ted on the I:\Documentation\GDSE data







