

Revision Date: August 15, 2012

Stand Examiner: Mario Molin

Legal Description: T. 46N, R16W, Sections 21,22,23,26,27,28

RMU (if applicable): This compartment lies within the Seney Manistique Swamp Management Area.

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

Soil and Topography: Land is mainly level with scattered sandy knolls/rises. Many lowland areas are interspersed between uplands.

Ownership Patterns, Development, and Land Use in and Around the Compartment: An 80 acre private parcel is located within the Southeast corner of the Compartment. Additional private holdings are situated adjacent to the Compartment to the Northeast and Southeast. The Compartment is surrounded mainly by a large block of state property. Intensive forest cutting in a northern hardwoods type has occurred in the recent past on the private property setting immediately to the Northeast.

Unique, Natural Features (include only non-site specific and non-sensitive information): The rare northern blue butterfly (*Lycaeides idas nabokovi*, state threatened) has been recently documented in the compartment. This species typically occurs in open sandy or rocky habitats, including patches within jack pine or spruce forests and along right-of-ways. It is often associated with its larval host plant, dwarf bilberry (*Vaccinium cespitosum*, state threatened), which has been reported southwest of the compartment. Adults are typically active from early June through mid July, at which time eggs are laid on or near the host plant. This species does not migrate. Instead, eggs overwinter and hatch the following spring.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): None known.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations: Streams are classified from First Quality Cold Water (FQCW) down to Second Quality Warm Water (SQWW). In this area, the FQCW means an excellent trout fishery, one that is supplemented by a Fisheries Division annual stocking program. These waters are generally the famous ones, but also include somewhat smaller waters that are capable of supporting the fish population density necessary to provide a superior angling experience. SQCW implies a cold stream that supports a natural trout population, but is limited by either physical size or lack of spawning/foraging habitat. Its limitations mean that it will never support a heavy angling pressure and harvest, so Fisheries Division does not publicize the water. Local anglers, however, know what the streams support, and do fish them quite a bit. In-stream habitat is usually in the form of large woody debris, or downed trees. Fish need them because they provide protection from overhead predators and because they force water currents to scour holes under and around them. The holes provide more water volume in the stream, keeping it cooler, as well as giving the fish more volume to "hide" in. The woody structure also forces more eddy currents, breaking the "solid"

water flow so that fish can get out of the current to rest. First Quality Warm Waters, (FQWW) are large, productive waters capable of supporting a good fishery for either warm-water species or cool-water species. In the Upper Peninsula, the designation generally applies to walleye, pike, musky or smallmouth bass waters. SQWW means small, possibly stagnant, warm streams that produce little to no actual fishery. Although small, their warm temperatures and generally high nutrient levels imply generally a higher productivity than the more "fishable" streams. Their value is attained from the production of forage that migrates downstream into areas of either cold-water or warm-water sports fish populations. For that reason, they are NOT useless waters, and they should be protected somewhat for the aquatic invertebrate and fish forage that they produce. Beaver populations in these streams could be a benefit, as their dams will increase productivity as well as inhibit sand bedload migration. Fisheries Values Poor-to-Good. Creighton River is classified as SQCW. We once surveyed with a backpack shocker and a canoe from the power line downstream to M-28. The most memorable part of the trip was dragging a 17-ft aluminum canoe up and over a huge logjam. We did not capture a single trout during that trip, despite angler reports to the contrary.

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 150 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. This compartment lies within the marsh/low pine ridge complex. The land form has a general NNW to SSE slope with upland islands surrounded by marsh and lowland coniferous forests. General Land Office (GLO) Surveyor notes show the circa 1850 upland forest was dominated by a mixture of hemlock, white pine, yellow birch, and red maple. Balsam fir, beech, cedar and spruce were also recorded. Tamarack and black spruce were by far the dominant lowland forest species. However, cedar, white pine, hemlock, jack pine, white birch, and tag alder were also present. Windthrow, fire, flooding, and beaver ponding all likely played major roles in the natural disturbance regime. Surveyors mentioned beaver ponding activity during their work in the township. Current forests in this compartment are substantially different from the circa 1850 conditions. Jack pine is by far the dominant tree species within the compartment. Aspen is more prevalent than before. Northern hardwood stands contain more deciduous and less hemlock/white pine component than during pre-settlement times. Spruce and tamarack are still the primary tree species in the lowland areas. Wildlife habitat objectives in this compartment include maintaining age and structural diversity between conifer stands, maintaining wildlife travel corridors across the landscape, promoting within stand diversity in the northern hardwood areas, and protection the integrity of the sheet flow of water across the compartment. Moose (Michigan special concern), and the northern blue butterfly (Michigan threatened) occur within this compartment. Other wildlife species of interest that may utilize this compartment include spring peepers, leopard frogs, great blue heron, northern harrier, red squirrel, and bobcat.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel and peat and muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Black River Group subcrops below the glacial drift. The Black River is used for stone/dolomite in the UP. Gravel pits are located three miles to the west and potential appears to be limited. There is no commercial oil and gas production in the UP.

Vehicle Access: Two primary 2-tracks provide access to the interior of the Compartment, West of the Creighton county road. Both are relatively drivable, though they also flood seasonally. One of the 2-tracks follows the East-West running powerline ROW. This road has many mucky, unstable areas which would pose access problems nearly year-round the further West you go. The 2-track becomes impassable at about the center of section 27, near the drain. The second 2-track is mainly a firm, sandy road which ends in unstable, mucky soil near the ¹/₄ corner between sections 21 and 22. The Northwest corner of the Compartment is remote and inaccessible. A moderately hard-packed, passable 2-track provides loop access to the northern stands east of the Creighton road.

Survey Needs: Provide at least one survey monument and private property lines on private 80 acre parcel within southeast corner of Compartment.

Recreational Facilities and Opportunities: One dispersed campsite is situated along the northeast 2-track, near the Creighton River in section 22. This site is used by deer hunters. A second dispersed camping site is found near the Pines Powerline Substation, on the powerline ROW East of the Creighton road. This site is also used by deer hunters. ATV tracks are very numerous on the powerline ROW, especially during hunting seasons.

Fire Protection: Fire suppression equipment will have difficult access in most areas due to lack of roads and well-dispersed wetlands/drainages.

Additional Compartment Information:

- > The following 5 reports from the Operations Inventory System (OIPC) are attached:
 - Cover Type by Age Class
 - Cover Type by Management Objective
 - ♦ Compartment Volume Summary
 - Proposed Treatments No Limiting Factors
 - Proposed Treatments With Limiting Factors
- > The following information is displayed, where pertinent, on the attached compartment maps:
 - Base feature information, stand numbers, cover types
 - Proposed treatments
 - Proposed road access system
 - Suggested potential old growth

Table 1 – Total Acres by Cover Type and Age Class

Shingleton Mgt. Unit Mario Molin : Examiner Compartment 157 Year of Entry 2014



Age Class

		\square	7	7	7	7	7	7	7	7	7	1	7.	7	
	/	8°0 /	2	~? ??	3	P	\$ <u>\$</u>	ş	R	\$?		°22	× /	R. S.
		'	» / '	* / *	~~ / [~]	\$ ² / '	\$ / `	° / '	~~ / °	8/9	8 / 1	~~/ ~	۲ 🕺	N / 2	3° / ~
	/	/	/	/	/	/	/	/	/	/	/	/	/	15	
Aspen	9	8	41	19	6	0	0	0	0	0	0	0	0	0	83
Hemlock	0	0	0	0	0	0	0	20	0	0	23	0	0	0	43
Jack Pine	0	247	471	56	0	59	174	132	39	8	0	0	0	0	1185
Low-Density Trees	24	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Lowland Aspen/Balsam Poplar	0	0	0	2	4	1	0	0	0	0	0	0	0	0	7
Lowland Conifers	40	0	10	7	0	0	0	0	3	0	2	0	0	0	62
Lowland Deciduous	0	36	20	2	44	16	3	0	0	0	0	0	0	0	120
Lowland Shrub	348	0	0	0	0	0	0	0	0	0	0	0	0	0	348
Lowland Spruce/Fir	0	0	0	10	0	6	4	64	25	8	0	0	0	0	118
Marsh	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Natural Mixed Pines	0	0	0	0	0	0	2	7	0	0	0	0	0	0	9
Northern Hardwood	0	0	0	0	0	4	0	0	244	0	0	0	0	0	248
Paper Birch	0	0	0	0	0	0	0	0	11	0	0	0	0	0	11
Red Pine	0	0	12	0	0	0	30	37	5	0	0	0	0	0	85
Tamarack	0	0	0	9	34	0	3	0	0	0	0	0	0	0	47
Upland Conifers	0	0	0	0	0	0	11	0	0	6	0	0	0	0	17
Upland Mixed Forest	0	0	53	0	0	0	0	0	0	0	0	0	0	0	53
Upland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Urban	23	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Water	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
White Pine	0	0	0	0	0	0	0	0	2	20	67	0	0	0	88
Total	462	291	607	105	88	86	227	261	328	42	92	0	0	0	2589



Table 2 – Proposed Treatment Summaries

MICHIGAN	Shingleton Mgt. Unit Year of Entry 2014											Compartment Total Compartment Acres:	157 2589
					Acre	s by T	reatm	ent Ty	pe				
	Commercial Harvest - 487	Site F	Prep - 14		٦	ree P	lanting	- 29		Pres	cribed Burn - 0	Other - 0	
	Habitat Cut - 0	Open	ning Maintena	nce - (ר (ree S	eeding	- 0		Pesti	cide - 0		
					Cov	ver Ty	pe by H	Harves	st Meth	nod			
				/	See of	Colocition of	000110000 10000 10000	eternood	Chilling Or		Se polo		
	Jack Pir	ne		198	0	0	0	0	0	198	Ι		
	Lowland	d Deciduo	ous	16	0	0	0	0	0	16	I		
	Lowland	d Spruce/	Fir	39	0	0	0	0	0	39			
	Norther	n Hardwo	od	0	0	0	0	0	210	210			
	Red Pin	ie		0	24	0	0	0	0	24	l		
			Total	253	24	0	0	0	210	487			

S t		Shingl	eton Mgt. Unit	Table 3 Treatments Prescribed with No Limiting Factor				bed	Compartment: 157 Year of Entry 2014	DNR DNR SS
a n Trea d N	atment ame	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2 41157	7002-Cut	29.4	6122 - Black Spruce	Medium Density Pole	78	51-80	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
Prescription Specs:	Clearcut	with red a	and white pine reserved.	Retention	ı will be e	edges and	small fingers that	at run into the mars	h.	
<u>Other</u> <u>Comments:</u>	Cut Sout	nern half,	trying to break up age c	lasses in t	he comp	artment.	May also have gr	een up issues with	stand 1 if cutting all of	stand.
<u>Next</u> <u>Steps:</u>	Prep site instructio	after cut ns.	with most appropiate me	ethod for th	ne site; s	caificatior	i for natural reger	neration, trench and	d plant Monitor accor	ding to work
Proposed Start Date:	10/01/201	3								
4 41157	7004-Cut	10.0	6122 - Black Spruce	High Density Pole	81	51-80	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
Prescription Specs:	Clearcut	with red a	and white pine reserved.	Retention	ı will be e	edges and	small fingers that	at run into the mars	h.	
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u>	Prep site instructio Acceptab	after cut ns. le regene	with most appropiate me eration is any mix of curr	ethod for th	ne site; s s on site	caificatior	i for natural reger	neration, trench and	l plant. Monitor accordi	ng to work
Proposed Start Date:	10/01/201	3		·						
5 41157	7005-Cut	8.3	6126 - Lowland Jack Pine	Medium Density Pole	91	1-50	Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal
Prescription Specs:	Clearcut	with red a	and white pine reserved,	retentin wi	ill edges	anlong th	e marsh.			
<u>Other</u> Comments:										
<u>Next</u> <u>Steps:</u>	Prep site instructio	after cut ns. le regene	with most appropiate me	ethod for th	ne site; s s on site	caificatior	n for natural reger	neration, trench and	d plant. Monitor accordi	ng to work
Proposed Start Date:	10/01/201	3								
11 41157	7011-Cut	15.9	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Pole	51	51-80	Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
Prescription Specs:	Clearcut	with sprue	ce and birch reserved. F	Retention v	vill be mi	nimal, on	y redline trees.			
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u>	Site will r	nost likely	/ be too wet for any cult	work, shou	uld regen	erate nati	ulally. Monitor ac	cording to work ins	tructions.	
Proposed Start Date:	10/01/201	3								

S t			Shinglet	ton Mgt. Unit	Tabl	e 3 with	Treatm No Limi	ents Prescril ting Factor	bed	Compartment: 157 Year of Entry 2014	DNR DNR
a n d	Trea Na	itment ame	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
31	41157	'031-Cut	24.5	42210 - Natural Red Pine	High Density Log	77	81-110	Harvest	Group Selection	42210 - Natural Red Pine	Cmpt. Review Proposal
Prese Spec	cription s:	Room er	nough to cu	t only jack pine (can	mark some r	ed pine	for access). Evidence of n	atural red pine rege	n.	
<u>Othe</u> Com	<u>r</u> ments:	Unique s	ite to the ar	rea, would like to ma	aintain it.						
<u>Next</u> Step	<u>s:</u>	Manage to work i	with natural nstructions.	I regeneration. 3rd y	ear regen che	eck, if re	egeneratior	not succcessful	l cut pine next entry	to seed tree level. Mo	nitor according
Propo Start I	<u>sed</u> Date:	10/01/201	13								
43	41157	043-Cut	17.1	6126 - Lowland Jack Pine	High Density Pole	83	81-110	Harvest	Clearcut with Reserves	6126 - Lowland Jack Pine	Cmpt. Review Proposal
Pres Spec	cription s:	Clearcut	with red pir	ne reserved. Leave	small retentio	n pocke	et in middle	e of stand per WL	_D.		
<u>Othe</u> <u>Com</u>	<u>r</u> ments:										
<u>Next</u> Step:	<u>s:</u>	Prep site instructio Acceptal	e after cut w ons. ole regenera	ith most appropiate ation is any mix of cu	method for th urrent species	e site; s s on site	scaification	for natural reger	neration, trench and	plant. Monitor accord	ling to work
Propo Start I	<u>sed</u> Date:	10/01/201	13								
45	41157	045-Cut	32.1	4112 - Maple, Beech, Cherry Association	High Density Log	85	81-110	Harvest	Other - Specify in Comments	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
Prese Spec	cription s:	Salvage	cut the bee	ch.							
<u>Othe</u> <u>Com</u>	<u>r.</u> ments:										
<u>Next</u> Step:	<u>s:</u>	Herbicide Underpla	e if neccess ant with oak	ary. per WLD							
Propo Start I	<u>sed</u> Date:	11/02/201	12								
47	41157	047-Cut	65.7	42220 - Natural Jack Pine	High Density Pole	75	81-110	Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal
Pres Spec	cription s:	Under co FTP C41	ontract 41-1 -1206	4-10-01							
<u>Othe</u> <u>Com</u>	<u>r</u> ments:	Retentio	n is unmark	ed red and white pir	ne as well as i	redline	trees.				
<u>Next</u> Step:	<u>s:</u>	Acceptal	ole regenera	ation is any mix of c	urrent species	s on site	9.				
Propo Start	<u>sed</u> Date:	01/19/201	12								

S t	Shingleton Mgt. Unit				Tabl	e 3 with	Treatm No Limi	ents Prescril ting Factor	bed	Compartment: 157 Year of Entry 2014	DNR DNR
a n d	Trea N	atment ame	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
48	4115	7048-Cut	35.0	42220 - Natural Jack Pine	High Density Pole	75	81-110	Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal
Prese Spec	cription s:	Under co FTP C41	ontract 41-1 -1206	14-10-01							
<u>Othe</u> Com	<u>r</u> ments:	Retention	n is unmarl	ked red and white pine	e as well as	redline	trees.				
<u>Next</u> Step	<u>s:</u>	Acceptat	ole regener	ation is any mix of cu	rrent specie	s on site	9.				
Propo Start	<u>sed</u> Date:	01/19/201	2								
56	4115	7056-Cut	178.2	4112 - Maple, Beech, Cherry Association	High Density Log	85 J	81-110	Harvest	Other - Specify in Comments	4110 - Sugar Maple Association	Cmpt. Review Proposal
Pres Spec	cription s:	∟ Beech sa	alvage, ma	y need to mark other	trees for ope	erability.	Green tre	e beech with sig	ns of bear use.		
<u>Othe</u> Com	<u>r</u> ments:										
<u>Next</u> Step:	<u>s:</u>	Herbicide Underpla	e if necces ant with oal	sary. < per WLD							
Propo Start	<u>sed</u> Date:	11/02/201	1								
71	411 Cut	57071- _small	49.6	42220 - Natural Jack Pine	High Density Pole	64	81-110	Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal
Prese Spec	cription s:	Clearcut	with red ar	nd white pine reserved	d, leave sma	III island	internal fo	r retention.			
<u>Othe</u> Com	<u>r</u> ments:	Consider	a partial c	ut (35 acres) to break	t up age clas	SS.					
<u>Next</u> Step	<u>s:</u>	Prep site instructio	after cut v ons.	vith most appropiate r	nethod for th	ne site; s	scaification	for natural reger	neration, trench and	d plant. Monitor accord	ling to work
Propo Start I	<u>sed</u> Date:	10/01/201	3								
76	41157	7076-Cut	21.8	42220 - Natural Jack Pine	High Density Pole	84	51-80	Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal
Preso Spec	cription s:	Under co FTP C41	ontract 41-1 -1206	14-10-01							
<u>Othe</u> <u>Com</u>	<u>r</u> ments:	Retentio	n is unmarl	ked red and white pind	e as well as	redline	trees .				
<u>Next</u> Step:	<u>s:</u>	Acceptat	ole regener	ation is any mix of cu	rrent species	s on site	9.				
<u>Propo</u> Start I	<u>sed</u> Date:	01/19/201	2								

S t		Shingle	eton Mgt. Unit	Tab	le 3 with	Treatm No Limi	ed	Compartment: 157 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
123	41157123- Plant	20.0	42200 - Natural White Pine	Low Density Log	95 9	1-50	Tree Planting	Hand Plant	42200 - Natural White Pine	Cmpt. Review Proposal
<u>Presci</u> Specs	<u>ription</u> Drop FT <u>:</u>	P C41-121	2 for underplanting w	ith white pine	e (comino	g in natura	illy) WLD is creat	ing FTP for planti	ng with oak saplings.	
<u>Other</u> Comm	ients:									
<u>Next</u> <u>Steps:</u>	Monitor	according	to work instructions.							
<u>Propos</u> <u>Start D</u>	<u>ed</u> <u>ate:</u> Unspecif	ied								
128	41157128- Plant	9.1	4130 - Aspen	High Density Sapling	3	1-50	Tree Planting	Hand Plant	4130 - Aspen	Cmpt. Review Proposal
<u>Presci</u> Specs	r <u>iption</u> Drop FT <u>:</u>	P C41-121	3 for planting white p	ine, coming i	n on its o	own. WLE) is creating FTP	for planting oak sa	aplings.	
<u>Other</u> Comm	ients:									
<u>Next</u> Steps:	Monitor	according	to work instructions.							
Propos Start D	<u>ed</u> ate: Unspecif	ied								
120	41157120- NonFor_small	0.5	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Sapling	13	1-50	Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<u>Presci</u> Specs	ription_WLD FT : Opening	P maintanei	nce with planting of h	nard/soft mas	t trees o	n edge.				
<u>Other</u> Comm	ients:									
<u>Next</u> <u>Steps:</u>										
Propos Start D	<u>ed</u> ate: Unspecif	ied								
	Total Treatme	nt								

Acreage Proposed: 517.0

Shingleton Mgt. Unit Table 4 Treatments Prescribed with s a Limiting Factor t a							with	Compartment: 157 Year of Entry 2014	57 14		
n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status	
			#Error								
Prescr Specs	ription ::										
<u>Other</u> Comm	<u>nent:</u>										
<u>Next</u> <u>Steps:</u>	<u>.</u>										
Propos Start D	<u>ed</u> <u>ate:</u> #Error										
<u>Limitin</u> Treatn	ng Factor and No nent Reason	<u>)</u>									
Ac	Total Treatmen	nt d: O									

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				Ou Prescr	t of YC ibed w	DE Tro ith No Li	eatments miting Facto	or	Year of Entry: 2014	DNR DNR
Tre: N	atment Iame	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
410 (09014- 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	t app. 5 ac	res, determined at time	e of prep						
<u>Other</u> Comments:										
<u>Next</u> <u>Steps:</u>	Monitor a	according t	o 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 v	white pine to 80 sq.ft. v	where dens	ities are	high enoug	h. Cut all other	species except hem	llock, oak, and cedar.	
<u>Other</u> Comments:	Retentior	n will be a	portion of the red pine	and white p	oine trees	s remaining].			
<u>Next</u> <u>Steps:</u>	Possible	regenerati	on 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 in comp 169 in 2014. hardwoods with qualit I BA	average wh y Sugar Ma	nile puttin aple stem	ng in regen ns	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	ory cycle.				
Proposed Start Date:	10/01/20	14								
Total	Treatmen	t	_							

Acreage Proposed: 10.5

S t	Shingleton Mgt. Unit			5 – Fo	orested Sta	ands Compartment: 157 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	6122 - Black Spruce	Medium Density Pole	53.4	78	51-80	Stand is not growing (2-3 sticks tall)
3	42220 - Natural Jack Pine	High Density Pole	5.9	58	51-80	j.pine 60 30 40 tam 0 10 0 spruce 0 20 10
4	6122 - Black Spruce	High Density Pole	10.0	81	51-80	
5	6126 - Lowland Jack Pine	Medium Density Pole	8.3	91	1-50	Fairly open grown stand. Old OI shows the stand to be much older.
						J.pine 10 30 10 Tamarack 10 20 0
6	6121 - Tamarack	High Density Pole	3.3	68	51-80	
7	42220 - Natural Jack Pine	High Density Pole	49.3	61	51-80	Small patch of spruce on the southwest end. J.pine 60 40 90 Spruce 0 20 0 Tamarack 0 0 10
8	42220 - Natural Jack Pine	High Density Pole	18.5	50	81-110	
10	42290 - Natural Mixed Pine	Low Density Log	2.0	71	1-50	Old cut looks to have been a jack pine clear cut with red and white pine reserved.
11	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Pole	15.9	51	51-80	Lots of deadwood, especially the tamarack, aspen is also very unhealthy looking. Spruce 10 0 10 Red maple 40 40 30 Tamarack 0 30 0 Aspen 20 0 0
 12	6117 - Lowland	Medium	1.6	37	1-50	Birch 0 0 10 red maple 20 0 0
	Deciduous, Mixed Coniferous	Density				w pine 10 0 10
13	42220 - Natural Jack Pine	High Density Pole	5.8	56	81-110	j.pine 70 100 90 spruce 31 10 20
14	6121 - Tamarack	High Density Pole	3.3	48	51-80	
15	42210 - Natural Red Pine	High Density Log	12.6	73	51-80	FTP C41-1212 for scarification was cancelled due to cut be more like a shelterwood prep.
16	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	2.8	65	51-80	

S t	Shingleton Mgt. Unit	n Mgt. Unit		5 – Fo	prested Stan	ds Compartment: 157 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
17	6122 - Black Spruce	High Density Pole	3.4	68	51-80	
18	42120 - Planted Jack Pine	High Density Sapling	59.6	19		
19	6122 - Black Spruce	High Density Pole	3.7	52	51-80	Not growing, cut next entry.
20	42210 - Natural Red Pine	High Density Log	14.6	63	81-110	
21	6121 - Tamarack	Medium Density Pole	30.6	48	1-50	More spruce and tree density to the north.
22	42350 - Upland Hemlock	High Density Log	20.1	73	51-80	
24	6122 - Black Spruce	High Density Pole	8.1	96	111-140	Healthy, wait till next entry Surrounding was just cut in 2009. B.spruce 150 110 100
25	4130 - Aspen	High Density Sapling	8.3	14		
27	42120 - Planted Jack Pine	High Density Sapling	449.2	23		Fully stocked J2
28	429 - Mixed Upland Conifers	High Density Pole	6.0	97	51-80	w. pine 60 20 40 spruce 30 30 10 birch 10 0 0 maple 10 0 0
29	6122 - Black Spruce	High Density Pole	11.0	71	51-80	Spruce 30 30 50 j. pine 20 20 10 w pine 20 20 0 r. pine 10 0 10
31	42210 - Natural Red Pine	High Density Log	24.5	77	81-110	Next to no regeneration on site, and only a small portion of the compartment is red pine, I would like to maintain this red pine stand and also keep the "natural" look to it.
32	6122 - Black Spruce	High Density Pole	14.0	85	51-80	Consider holding till next entry or not cutting at all for habitat. Is only mature dense stand of timber in the immediate area aolng the power line.
33	42260 - Natural Pine, Mixed Deciduous	High Density Pole	1.8	63	81-110	Narrow ridge not mapped last time.
34	42220 - Natural Jack Pine	High Density Pole	1.8	76	51-80	Spruce 20 20 10 Red pine 10 0 0 J. Pine 20 40 60

S t	Shingleton Mgt. Unit			5 – Fo	prested Sta	Inds Compartment: 157 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
35	42200 - Natural White	High Density	66.7	107	1-50	Recently cut stand (5/10), with W. pine seed trees left.
	Fille	LOg				W pine 50 30 50 P birch 0 10 0
						Little if any sign of regeneration (seed tree/shelterwood)
						FTP C41-1211 for RX burn cancelled, wait 2 years to see if regenerating.
36	42220 - Natural Jack Pine	High Density Pole	28.6	58	81-110	J pine 120 80 50 R pine 10 0 20 B spruce 0 0 30
38	42290 - Natural Mixed	High Density	5.0	77	81-110	No signs of cutting in the past.
	Pille	Log				R pine 60 0 70 W pine 40 60 10 J pine 0 0 30
39	42220 - Natural Jack Pine	High Density Sapling	35.4	14		
41	6122 - Black Spruce	High Density Pole	2.5	57	111-140	Spruce 50 60 40 Fir 50 30 50 W pine 20 10 30 Tam 10 20 0 R pine 10 0 0
43	6126 - Lowland Jack Pine	High Density Pole	17.1	83	81-110	Ring count shows little growth over last 20 years. Was classified as spruce last entry, appears to have died out.
						J pine 40 70 110 spruce 30 20 0 R pine 10 0 0
44	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	18.3	45	51-80	R maple 20 30 0 Spruce 10 20 30 Birch 20 0 10 W pine 10 20 10
45	4112 - Maple, Beech, Cherry Association	High Density Log	32.1	85	81-110	Beech scale in stand, enough BA of beech to justify a salvage cut.
46	6129 - Mixed Coniferous Lowland Forest	High Density Pole	2.6	85	81-110	Tamarack 20 40 30 Spruce 40 20 30 Birch 10 30 20 R pine 10 0 0 R Maple 0 10 10
47	42220 - Natural Jack Pine	High Density Pole	65.7	75	81-110	Under contract 41-14-10-01
48	42220 - Natural Jack Pine	High Density Pole	35.0	75	81-110	Under contract 41-14-10-01

S t	Shingleton Mgt. Unit			5 – Fo	prested Sta	nds Compartment: 157 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
49	42200 - Natural White	Low Density	1.8	87	51-80	Recently cut (2009)
	FIIIC	LUg				FTP C41-1206 cancelled prematurely for other standsregenerating naturally no other work necessary.
50	42210 - Natural Red Pine	Low Density Log	14.0	63	1-50	FTP C41-1206 cancelled prematurely New FTP C41-1536
						Cut in 2005
51	42220 - Natural Jack Pine	High Density Sapling	8.8	15		Was one stand in the past with 59 and 61, and still could be Made them seperate from imagery and also for ease of breaking up age classes in future harvests.
52	42110 - Planted Red Pine	High Density Pole	12.1	26	81-110	Does have a small finger of aspen in the northwest end.
53	6121 - Tamarack	High Density Pole	9.4	34	51-80	
54	42350 - Upland Hemlock	High Density Log	23.3	102	111-140	Hemlock 40 140 140 R maple 40 20 30 Y birch 0 0 10
						Scattered white pine and paper birch. Transitioning to multi storied.
55	4130 - Aspen	High Density Sapling	31.5	20		
56	4112 - Maple, Beech, Cherry Association	High Density Log	178.1	85	81-110	R.maple 90 40 70 80 Beech30 20 20 0 Pbirch0 20 0 0 Hemlock 0 10 0 0 Cherry 0 0 10 0
57	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	6.1	45	1-50	
60	42220 - Natural Jack Pine	High Density Sapling	25.0	15		
61	6122 - Black Spruce	High Density Pole	10.0	30	1-50	
62	42220 - Natural Jack Pine	High Density Sapling	28.6	15		
64	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	2.2	102	111-140	

S t	Shingleton Mgt. Unit			5 – Fo	prested Sta	Inds Compartment: 157 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
65	42210 - Natural Red Pine	Medium Density Log	3.6	81	1-50	R.pine 30 0 60 P.birch 0 10 10
						FTP C41-1213 was cancelled due to cut be more like a shelterwood prep.
67	6122 - Black Spruce	High Density Pole	1.1	84	81-110	small isolated stand
						B.spruce 110 90 70 R maple 10 0 10 Tam 0 0 20
68	6112 - Lowland Aspen	High Density Pole	1.9	34	81-110	
69	4130 - Aspen	High Density Pole	6.8	33	51-80	
70	6116 - Lowland Birch	Low Density Pole	11.3	89	1-50	FTP C41-1213 cancelled for hand plant red and jack pine on knobs. Thinking spruce and jack pine will regenerate naturally, check in 2 years. If neccessary in 2 years trench and plant jack pine.
71	42220 - Natural Jack Pine	High Density Pole	113.8	64	81-110	Break up age classes.
72	4311 - Pine, Aspen Mix	High Density Sapling	31.8	27		
73	6125 - Lowland Black Spruce, Jack Pine	Low Density Sapling	39.8	8		Lots of B spruce regen. FTP C41-1206 was prematurally cancelled for other stnads, this stand is regenerating naturally and needs no other work.
74	6122 - Black Spruce	High Density Pole	0.7	61	51-80	
75	6119 - Mixed Lowland Deciduous Forest	High Density Pole	19.1	45	51-80	
76	42220 - Natural Jack Pine	High Density Pole	21.7	84	51-80	Under contract 41-14-10-01
77	42220 - Natural Jack Pine	High Density Sapling	33.3	14		
79	42210 - Natural Red Pine	High Density Log	1.3	81	51-80	FTP C41-1213 was cancelled due to cut be more like a shelterwood prep.
82	42220 - Natural Jack Pine	High Density Sapling	18.6	14		
83	4130 - Aspen	High Density Sapling	2.3	33	1-50	

S t	Shingleto		5 – Fo	prested Stand	ds Compartment: 157 Year of Entry: 2014	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
84	42220 - Natural Jack Pine	High Density Pole	4.5	72	81-110	under contract 41-14-10-01
86	4311 - Pine, Aspen Mix	High Density Sapling	14.2	27		
87	42220 - Natural Jack Pine	High Density Sapling	15.6	14		
88	429 - Mixed Upland Conifers	High Density Pole	11.2	62	1-50	
91	4133 - Aspen, Mixed Pine	High Density Pole	9.1	27	1-50	
92	6123 - Lowland Fir	Medium Density Pole	3.4	34	1-50	
94	6127 - Lowland Pine	Medium Density Pole	10.0	27		
95	42220 - Natural Jack Pine	High Density Pole	6.9	65	51-80	narrow sliver in lowland
96	6112 - Lowland Aspen	Low Density Pole	1.1	50	1-50	
97	4130 - Aspen	High Density Pole	9.8	33	1-50	
98	42220 - Natural Jack Pine	High Density Pole	34.1	32	51-80	
99	42220 - Natural Jack Pine	High Density Pole	3.6	61	81-110	
100	42220 - Natural Jack Pine	High Density Sapling	21.9	14		
104	42220 - Natural Jack Pine	High Density Sapling	8.8	27		
105	42220 - Natural Jack	High Density	16.9	73	81-110	Cut next entry
						J pine 80 120 50 B spruce 10 0 20 W pine 0 0 10
106	4112 - Maple, Beech, Cherry Association	High Density Pole	19.9	85	51-80	R maple 40 50 40 aspen 10 0 0 birch 10 10 30
108	42220 - Natural Jack Pine	High Density Pole	12.7	22	51-80	Basically the same as stand 90, and was in pervious inventory. Shows up differently i the imagery, I think it is slightly higher ground.

S t	Shingletor		5 – Fo	orested Stan	ds Compartment: 157 Year of Entry: 2014	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
109	4112 - Maple, Beech, Cherry Association	High Density Log	13.7	85	81-110	
110	4113 - R.Maple, Conifer	High Density Pole	3.6	50	1-50	
111	42220 - Natural Jack Pine	High Density Sapling	22.1	32	1-50	J pine 20 40 10 Aspen 0 0 30 Spruce 0 0 10
112	42220 - Natural Jack Pine	High Density Pole	4.0	72	81-110	under contract 41-14-10-01
113	42220 - Natural Jack Pine	High Density Pole	4.4	73	51-80	J. pine 60 80 90 B. spruce 10 0 0
						Consider cutting for age class dstribution
115	6123 - Lowland Fir	High Density Pole	3.7	33	51-80	
116	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	18.7	29	1-50	
117	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	1.6	29	1-50	
119	6112 - Lowland Aspen	High Density Pole	4.1	41	1-50	
120	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density	25.9	13	1-50	Patchwork site, aspen,fir, with pockets of open ground more in the south. Has scattered jack pine and black cherry.
121	4319 - Mixed Upland Forest	High Density Sapling	6.8	27		
122	42210 - Natural Red Pine	High Density Log	1.8	62	51-80	
123	42200 - Natural White Pine	Low Density Log	20.0	95	1-50	Change FTP Wildlife Div. to plant oak White pine is coming in naturally
						C41-1212
124	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	10.2	14	51-80	
126	4130 - Aspen	High Density Pole	6.1	49	81-110	Poor stocking, if in need of acres

S t	Shingleton Mgt. Unit			5 – Forested Stands		Compartment: 157 Year of Entry: 2014	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
128	4130 - Aspen	High Density Sapling	9.1	3	1-50	Change FTP per WLD. Would like to plant oak White pine and aspen coming in naturally. C41-1213	

Shingleton Mgt. Unit

6 – Nonforested Stands

Compartment: 157 Year of Entry: 2014



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	3302 - Low Density Conifer Trees	5.8	Yes	High (NonForested)	
9	622 - Lowland Shrub	105.7	N\A	Unspecified	
23	622 - Lowland Shrub	56.7	N\A	Unspecified	
26	3303 - Mixed Low Density Trees	7.6	No	Unspecified	
30	622 - Lowland Shrub	5.2	N\A	Unspecified	
37	622 - Lowland Shrub	34.1	N\A	Unspecified	
40	3303 - Mixed Low Density Trees	5.8	No	Unspecified	
42	623 - Emergent Wetland	4.3	N\A	Unspecified	
58	622 - Lowland Shrub	54.5	N\A	Unspecified	
59	622 - Lowland Shrub	3.1	N\A	Unspecified	
63	622 - Lowland Shrub	7.7	N\A	Unspecified	
66	320 - Upland Shrub	4.8	N\A	Unspecified	
78	50 - Water	2.4	No	Unspecified	
80	3302 - Low Density Conifer Trees	4.6	Yes	Low (NonForested)	
81	122 - Road/Parking Lot	9.8	N\A	Unspecified	
85	50 - Water	1.3	No	Unspecified	
89	622 - Lowland Shrub	25.6	N\A	Unspecified	
90	122 - Road/Parking Lot	11.2	No	Unspecified	

Shingleton Mgt. Unit

6 – Nonforested Stands

Compartment: 157 Year of Entry: 2014



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
93	50 - Water	1.9	No	Unspecified	
101	622 - Lowland Shrub	17.0	N\A	Unspecified	
102	6220 - Alder/willow	3.8	No	Unspecified	
103	6220 - Alder/willow	6.6	No	Unspecified	
107	50 - Water	1.2	No	Unspecified	
114	50 - Water	0.6	N\A	Unspecified	
118	6229 - Mixed lowland shrub	13.7	No	Unspecified	
125	122 - Road/Parking Lot	2.4	N\A	Unspecified	
127	6229 - Mixed lowland shrub	14.2	No	Unspecified	
129	50 - Water	1.1	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.

Conservatio Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	itions that allow naturally-reproduced or ies (e.g., slimy sculpin) to persist from ese conditions due to substantial are established by Director's action and	
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples or identified as Element Occurrences (EOs) by the Michigan Natura context of their natural community classification system. Elemen (Excellent) or B (Good) and a Global (G) or State (S) element (ra threatened (2), or rare (3) serve as an initial base of ERAs. They the State. The system is comprised of individual or associations managed for restoration and maintenance of natural ecological p submit recommendations for lands as ERAs using the DNR Com	f natural communities that have been al Features Inventory (MNFI) within the t Occurrences with viability ranks of A arity) ranking of endangered (1), may be located upon any ownership in of natural community types that are processes and values. The public may servation Area Recommendation Form.



Stand Boundary Map Stand # Stocking 23 Density (412)0) - A7 Level 3 Ol Level 4 Code Cover Type Code Compartment: 157 T46N R16W Sec. 21-23, 26-28 County: Schoolcraft 45 **4112**-M9 Unit: Shingleton YOE: 2014 Acres: 2,589 GIS Calculated Examiner: Mario Molin 56 **4112**-M9 Map Revised: 09/12/2012 126-J5 Map Phase: Pre-Review 4222-J 21 22 23 22 21 28 27 26 429 -MC \mathcal{L} $\mathcal{O}\mathcal{P}$ /4(0) 4222-J3 4222-J 71 **4222**-J6 102 107 114 622-L0 500-Z0 500-Z0 90 93 122-X0 500-Z0 78 **500**-Z0 K. 85 **500**-Z0 / 80 330-U0

_86°18'0"W



