

Revision Date: July 18, 2011

Stand Examiner: Joe Durbin, FMD; Bill Rollo, Wildlife Division

Legal Description: T36N R25W, Sections 28 and 33

**Management Goals:** This compartment is part of the Green Bay Lake Plain Management Area and is located about 15 miles northeast of Stephenson, Michigan. It is a mixture of upland and lowland types. Upland types are about 64 % of the compartment and include mostly aspen with northern hardwood, red and white pine and mixed conifer forest types. Lowland types are about 36% and include mostly cedar and lowland brush with mixed conifer timber types. The water type is the Big Cedar River and a small pond called Kessler Lake. Several unnamed streams flow through the compartment.

Approximately 280 acres comprising 16 stands are proposed for treatment. Of the proposed treatments, approximately 138 acres (8 stands) are clearcut with reserves, 80 acres (5 stands) are partial cuts and 62 acres (3 stands) are proposed for treatment of invasive species—not the entire stands are to be treated, only the infested areas.

**Soil and Topography:** Topography is level to gently rolling. The soils are primarily well-drained sands, loams and mucks/peats. The major soil series include the complexes of Deford-Wainola-Rousseau and Tawas-Deford and series of Rousseau.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The compartment is part of a mostly contiguous block of state ownership with a few private holdings mainly along the Big Cedar River. Most private ownership is recreational for hunting, fishing and trapping and only seasonally occupied with access through state-owned land. One parcel has a permanent residence located on the east bank of the river on a portion of the old logging camp known as "Camp B".

**Unique, Natural Features:** The Big Cedar River flows north to south through the east portion of the compartment.

Archeological, Historical, and Cultural Features: Site of the former logging camp known as "Camp B" and associated dam site lies in the northeastern portion of the compartment. Part of the site lies on state land and part on private.

**Special Management Designations or Considerations:** Portions of the compartment along the Big Cedar River are proposed SCA riparian corridor.

**Watershed and Fisheries Considerations:** The Big Cedar River flows north to south through the eastern portion of the compartment. Several unnamed tributaries flow to the river. A small pond called Kessler Lake lies near Schuster Road.

**Wildlife Habitat Considerations:** This compartment is within the Green Bay Lake Plain Management Area. This area demonstrates a natural propensity to grow white pine and balsam fir--species which are

found in the understory of many aspen and maple stands. These mesic conifer species will be encouraged where appropriate. Aspen forest comprises a large percentage of this compartment, and about 87 acres will be harvested and regenerated which will provide habitat for early successional species, including many of the most popular game species. Cedar and hemlock provide important wildlife habitat in this area, but regeneration of both species has been problematic. Management will be aimed at maintaining these stands because they are of modest age. The Big Cedar River riparian corridor continues to be designated a special conservation area where natural processes will be allowed to operate. This designation will eventually provide mature wildlife habitat with large diameter trees, abundant snags, cavity trees, and dead woody debris on the forest floor.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of lacustrine (lake) sand and gravel. There is approximately 50 feet of relief in the compartment. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Trenton Group underlies the glacial drift and is quarried for dolomite/stone west of Escanaba. Gravel pits are located less than one mile to the north and east of the compartment, however, none are developed within the compartment. No economic oil and gas production has been found in the UP.

**Vehicle Access:** Access into the western portion of the compartment is via the Westman Road and the Schuster Road. The portion east of the Big Cedar River is accessed from County Road 551—Cedar River Road. Access from the south is through a locked gated forest road which is used by the Forest Islands ORV Trail. A locked gate at the Schuster Road near the center of section 33 closes the road to non-ORV traffic.

Survey Needs: For the proposed treatments, potentially six survey corners maybe needed.

**Recreational Facilities and Opportunities:** Forest Island ORV Trail utilizes Schuster Road and an unnamed forest road through the southern portion of section 33. The site of the old state forest Cedar River campground lies on the east bank of the Big Cedar River in the NESE of section 28. Local equestrian groups have expressed interest in utilizing this site for trail camping The site should have some hazard trees removed particularly over-mature short-lived species such as aspen and balsam fir as well as some of the high risk spruce, pine and/or hardwoods. This maintenance might be accomplished through a timber sale.

Other recreational opportunities include hunting, fishing, trapping and horseback riding.

**Fire Protection:** Access is very good throughout most of this compartment and the timber types in the area are generally low risk for fire hazard. Some of the interior more remote areas may present a greater fire hazard.

### **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

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

Escanaba Mgt. Unit Joseph Durbin : Examiner

### Compartment 047 Year of Entry 2013



							Age (	Class									
	Nor	Dese este	°z	10 <sup>,70</sup>	10 <sup>-12</sup>	50, 50, 50, 50, 50, 50, 50, 50, 50, 50,	10 <sup>-10</sup>		00 00	10,10	40 <sup>1</sup>	99. 99.	100'100	611.0L	10× 150	AS AS	100 100 100 100 100 100 100 100 100 100
Aspen	0	100	81	80	61	35	40	0	13	6	0	0	0	0	0	415	ſ
Cedar	0	0	0	0	0	0	0	0	0	0	20	11	0	102	0	133	
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	10	
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
Low-Density Trees	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	
Lowland Aspen/Balsam Poplar	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	18	
Lowland Conifers	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	18	
Lowland Deciduous	0	0	12	0	0	0	0	0	11	19	13	0	0	0	0	55	
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	49	0	0	0	0	49	
Lowland Shrub	124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124	
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	20	0	43	0	0	0	0	63	
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0	21	
Northern Hardwood	0	0	0	0	0	0	0	23	26	36	0	0	0	0	0	84	
Red Pine	0	0	11	0	0	0	0	0	48	0	0	0	0	0	0	59	
Upland Conifers	0	0	41	0	0	0	0	0	0	0	0	0	0	0	0	41	
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	13	1
Upland Spruce/Fir	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	38	
Water	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	
White Pine	0	0	0	0	0	0	0	0	10	6	0	0	0	0	0	17	J
Total	149	100	201	98	61	35	40	23	128	81	146	11	0	112	0	1185	



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# Table 2 – Proposed Treatment Summaries

MICHIGAN .	Escanaba Mgt. Unit Year of Entry 2013											Compartment Total Compartment Acres:	
					Acre	s by T	reatm	ent Ty	ре				
	Commercial Harvest - 21	8 Site F	Prep - 0		٦	ree P	lanting	- 0		Pres	cribed Burn - 0	Other - 0	
	Habitat Cut - 4	Oper	ning Maintena	nce - C	ר (	ree S	eeding	- 0		Pesti	cide - 57		
					Cov	ver Ty	pe by H	larves	st Meth	od			
						Colection of	St. Cool	Nood Contraction of the second	initian of		Second Second		
	Asper	า		76	5	0	0	0	0	81			
	Herba	iceous Ope	nland	4	0	0	0	0	0	4			
	Lowla	and Deciduo	ous	29	0	0	0	0	0	29			
	North	ern Hardwo	bod	23	27	0	0	0	0	50			
	Red P	Pine		10	0	0	0	38	0	48			
	White	Pine		0	10	0	0	0	0	10	[		
			Total	142	43	0	0	38	0	223			

S t			Esca	naba Mgt. Unit		-	atments Pre Limiting Fac		Compartment: 047 Year of Entry 2013	DIR NATURE
a n d		itment ame	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	33047	7001-SC	11.7	4112 - Maple, Beech, Cherry Association	High Density Log	81	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
Presc Specs			,	nt compartment 46 w te some canopy gaps				elect cut to 70-80 residua cies diversity.	l basal area. Retain ce	edar, hemlock
<u>Other</u> Comn	<u>nents:</u>	Follow in	stand re	tention guidelines.						
<u>Next</u> <u>Steps</u>	<u>:</u>	Check ne sprouts a			atment for regenera	tion suc	cess. Acceptat	ble regeneration will be a	mixture of current spec	ies as stump
3	33047	7003-CC	11.0	6118 - Lowland Deciduous with Cedar	High Density Pole	70	Harvest	Clearcut with Reserves	6118 - Lowland Deciduous with Cedar	Cmpt. Review Proposal
Presc Specs				serves. Cut all hardv r seed source.	vood species, balsa	m fir, sp	ruce and tamara	ack. Retain hemlock, ceo	lar and pine and mark t	to retain
<u>Other</u> <u>Comn</u>	nents:	Treat wit	h hardwo	ood stand to the west	and compartment 4	6.				
<u>Next</u> <u>Steps</u>	<u>::</u>	Check ne seedlings		tory for regeneration	success. Acceptab	le regen	eration will be a	mixture of current specie	es as suckers, stump sp	prouts and/or
13	33047	013_SC	4.7	4130 - Aspen	High Density Pole	56	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
Presc Specs		Selectcu	t. Select	cut to 70-80 residual	basal area. Follow	in-stand	I retention guide	elines.		
<u>Other</u> Comn	nents:	The west	t bounda	ry of the polygon is a	pproximate and will	be deter	mined at the tin	ne the sale is setup.		
<u>Next</u> <u>Steps</u>	<u>:</u>	Acceptat success			udes a mixture of stu	imp spro	outs and seed o	rigin seedlings of current	species. Check for reg	generation
13		47013- Cw/R	34.9	4130 - Aspen	High Density Pole	56	Harvest	Clearcut with Reserves	4136 - Aspen, Mixed Conifer	Cmpt. Review Proposal
Presc Specs				serves. Cut all trees rea of 70-80.	except hemlock, pir	ne and c	edar. Also, a p	ortion of the stand west o	f the ORV trail should b	be select cut to
<u>Other</u> Comn	<u>nents:</u>									
<u>Next</u> Steps	<u>:</u>			eration includes a mices next entry OI.	ixture of aspen suck	ers and	stump sprouts a	and seed origin seedlings	of current species. Ch	neck for
14	33047	′014-CC	12.6	6115 - Lowland Ash	High Density Pole	90	Harvest	Clearcut with Reserves	6115 - Lowland Ash	Cmpt. Review Proposal
Presc Specs		Clear cut	with Re	servesCut all trees	except cedar, hemlo	ock and	pine. Also, mar	k scattered (green tree) ti	rees to retain for seed s	source.
<u>Other</u> Comn	<u>nents:</u>									
<u>Next</u> Steps	<u>:</u>	Acceptat success			ixture of suckers, stu	ump spro	outs and seed o	rigin seedlings of current	species. Check for reg	generation

S t a			Esca	anaba Mgt. Unit			atments Pro Limiting Fac		Compartment: 047 Year of Entry 2013	DNR MATURE
n d	Treat Nai		Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
18	330470	18-CC	5.6	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	84	Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
Presci Specs		Clear-cut	t with Re	serves. Cut all trees e	except hemlock, ce	edar and	mark scattered	trees for seed source.		
<u>Other</u> Comm	-	ix culve	rt in the	road into stands 18 ar	nd 20.					
<u>Next</u> Steps:		•	ole reger ition succ		ire of suckers, stun	np sprou	ts and seed orio	gin trees of the current sp	ecies. Check next entr	y for
23	330470	23-CC	22.6	4113 - R.Maple, Conifer	Medium Density Pole	62	Harvest	Clearcut with Reserves	4113 - R.Maple, Conifer	Cmpt. Review Proposal
Presci Specs			t with res e for cut		shelter-wood cut. (	Cut all tre	ees except hem	lock, cedar, pine, beech a	and yellow birch. Mark	some of the
<u>Other</u> Comm	-									
<u>Next</u> Steps:								regeneration. Acceptabl on success next entry OI		a mixture of
26	330470	26-SC	15.8	4119 - Mixed Northern Hardwoods	High Density Pole	70	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
Presci Specs	•	Select-cu	ut to resi	dual basal area of 70-	80. Retain hemloc	k, cedar	, beech and pine	e. Maintain species divers	sity.	
<u>Other</u> Comm			the north oproxima		and from treatment	beginniı	ng where the dra	ainage/swale begins. We	estern boundary of treat	ment polygon
<u>Next</u> Steps:		Acceptatentry OI.		eration includes a mix	xture of stump spro	uts and	seed origin seed	dlings of current species.	Check for regeneration	n success next
36	330470	36-CC	28.3	4133 - Aspen, Mixed Pine	High Density Pole	49	Harvest	Clearcut with Reserves	4133 - Aspen, Mixed Pine	Cmpt. Review Proposal
Presci Specs			t with Re and bee		, balm, paper birch	, maple,	ash, balsam fir	and spruce. Mark white	and red pine to be cut.	Retain cedar,
<u>Other</u> Comm				of the stand that were propriate buffer along				tain a buffer along the cre	eek near the south bour	ndary of the
<u>Next</u> Steps:		•	ole reger next enti		kture of suckering,	stump sp	prouts and seed	l origin seedlings of curre	nt species. Check for r	egeneration
38	330470	38-SC	10.4	42200 - Natural White Pine	Medium Density Log	74	Harvest	Single Tree Selection	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
Presci Specs				d white pine to 80-90 s nd beech.	square feet of resid	lual basa	al area. Cut all a	aspen, maple, balm, ash,	birch, spruce and bals	am fir. Retain
<u>Other</u> Comm		eave ap	propriate	e buffer along the stre	am north of the sta	ind.				
<u>Next</u> Steps:			ole reger next enti		kture of suckering,	stump sj	prouts and seed	l origin seedlings of curre	nt species. Check for r	egeneration

S t		Esc	canaba Mgt. Unit			atments Pres .imiting Fact		Compartment: 047 Year of Entry 2013	DR NATURAL COM
a n d	Treatme Name	nt Acres	s Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
43	33047043_ w/R	<b>.CC</b> 9.9	42210 - Natural Red Pine	High Density Log	76	Harvest	Clearcut with Reserves	42210 - Natural Red Pine	Cmpt. Review Proposal
Prescri Specs:		ar-cut with re	eserves. Cut all trees	except leave a few s	scattered	trees for seed so	ource.		
<u>Other</u> Comm	ents:								
<u>Next</u> Steps:			hor chains post-harve f white pine, aspen, m			n at time the timb	per sale is setup. Acco	eptable regeneration incl	udes red pine
43	3304704 Thin	<b>3-</b> 37.9	42210 - Natural Red Pine	High Density Log	76	Harvest	Crown Thinning	42210 - Natural Red Pine	Cmpt. Review Proposal
Prescr Specs:	· · · ·	n red pine to	100-110 residual bas	al area. Follow in-st	and reter	ntion guidelines.			
<u>Other</u> Comm	<u>ents:</u> loge hau	ing activity a ling is restric	and logger must use e sted to week days only	extreme care when o	perating	in the stand to av		CRV Trail is to be well ecking is allowed along t lowed.	
<u>Next</u> Steps:	Re	eneration is	not expected.						
58	33047058	<b>CC</b> 13.2	4133 - Aspen, Mixed Pine	Medium Density Pole	71	Harvest	Clearcut with Reserves	4133 - Aspen, Mixed Pine	Cmpt. Review Proposal
Prescri Specs:			eserves. Cut all spec and birch for snags.	ties except mark to le	eave a fe	w pine of various	size classes for seed	source and diversity. A	so, mark a few
<u>Other</u> Comm	<u>ents:</u> acti	vity and logg		care when operating	in the st	and to avoid OR	V users. No decking is	Trail is to be well signed s allowed along the trail a	
<u>Vext</u> Steps:		eptable rege cess next en		nixture of suckering,	stump sp	routs and seed o	origin seedlings of curr	ent species. Check for r	egeneration
20 1	NF_33047 Cut	<b>)20-</b> 4.4	Non-Forested		0	Harvest	Clearcut	3102 - Grass	Cmpt. Review Proposal
Prescri Specs:		t control. Cu	ut and remove all scot	tch pine trees. Also,	, remove	and treat any au	tumn/Russian olive sh	rubs.	
<u>Other</u> Comm							, westa nd south boun along the road south	daries. Scotch pine sca of the stand.	tered
1		•	eatments be funded?	ion of costab size of		dive elive elevite	Tur et en renuistel, if	n and a standard	
<u>vext</u> Steps:	Che	CK and mon	itor for new regenerat	ion of scotch pine ar	na non-na	ative olive plants.	Treat appropriately if	new plants are found.	
10	3304701 Spray	<b>0-</b> 46.0	4134 - Aspen, Spruce/Fir	Low Density Sapling	12	Pesticide	Hand Sprayer	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
	•	at spotty occ	urance of phragmites	before it enlarges.					
-			nd along ORV trail/N-9	S road, north of E-W				tand and along the west	side of stand.
Prescri Specs: Other Comm				mazapyr as outlined	in literatu	are. How will pes	st treatments be funde	d?	

S t a		Esca	inaba Mgt. Unit			atments Pres .imiting Fact		Compartment: 047 Year of Entry 2013	DNR DNR
n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
53	33047053- Spray	11.5	6120 - Lowland Cedar	Medium Density Pole	105	Pesticide	Hand Sprayer	6132 - Mixed Lowland Forest with Cedar	Cmpt. Review Proposal
Presci Specs	density		in understory in the					n several areas of the sta atment to be determined	
<u>Other</u> Comm	•	l pest trea	tments be funded?						
<u>Next</u> Steps:		annually f	for treatment effectiv	reness and repeat tr	eatments	as necessary.			
	Total Treatme reage Propose		0.3						

S t a		Escan	aba Mgt. Unit	Table 4		ents Prescrib ng Factor	ed with	Compartment: 047 Year of Entry 2013	DIRATURE
n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error						
Presc Spece	ription <u>s:</u>								
<u>Other</u> Comr									
<u>Next</u> <u>Steps</u>	<u>:</u>								
	ng Factor and No ment Reason	<u>)</u>							
Ac	Total Treatmer creage Propose		0						

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

Year of Entry: 2013

# DRR DRR M

Treatment	Acres	Stage1	Size	Stand	Treatment	Treatment	Cover Type	Approval
Name		CoverType	Density	Age	Type	Method	Objective	Status
33002_OutOfY OE-Cut	0.7				Harvest	Clearcut with Reserves	6129 - Mixed Coniferous Lowland Forest	Cmpt. Review Proposal

Prescription Final harvest this stand, leaving some seed trees. Harvest this stand with stand 13 in comp 1.

Specs:

#### Other Decent quality tamarack and spruce stand.

0.7

Comments:

<u>Next</u> Manage this stand for a mix of tamarack and spruce primarily, but a mix with other lowland species is acceptable.

<u>Steps:</u>

Total Treatment Acreage Proposed:

S t	Escanaba Mgt. Unit			5 – Fo	prested Sta	rinds Compartment: 047 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4112 - Maple, Beech, Cherry Association	High Density Log	11.7	81	141-170	Many poor quality red maple log- and pole-sized trees. Some red and white pine seedlings in understorynot tall enough or abundant enough to tally. Other species found include cedar, paper and yellow birch, basswood, hard maple, beech and balsam fir. Other species observed include: cedar, paper andyellow birch, basswood, hard maple, beech and balsam fir.
2	6111 - Lowland Balsam Poplar	High Density Sapling	18.0	17		Mostly low ground with NE-SW low ridges of high ground. Cedar and hemlock residual from last treatment in 1994 are mostly in clumps. Some cedar and hemlock are scattered individuals. Some blow down. Lots of deer browse of black ash seedlings. Other species observed include: tamarack, hemlock, red and white pine and ash.
3	6118 - Lowland Deciduous with Cedar	High Density Pole	11.0	70	171-200	Mostly ash, birch, maple and some aspen over topping cedar. Some areas mostly E-type and other areas more cedar type. In some areas cedar very good quality posts and bolts; in other areas sweep and blow down. Other species observed include red maple.
4	6120 - Lowland Cedar	Medium Density Pole	7.8	120		Stand is slightly upland with some slope rising to the south. Nice quality cedar. Stand is a good travel corridor and seems to be well used by deer with lots of tracks through this area. Many large diameter balm trees and snags. Other species observed: red pine.
6	4130 - Aspen	High Density Sapling	32.4	3		Ground is mostly slightly upland with some lower ground in swales. Stand last treated in 2008final harvest with reserves. Regeneration is patchy but mostly well stocked and dense with some sparse and more open. Nice annual height growth with 3- 4 feet last year. More open area have red raspberries. Cedar poles are residual from last treatment. Also some scattered red and white pine and hemlock sawlog-sized trees.
7	6120 - Lowland Cedar	High Density Pole	29.0	121		Most of stand is cedar with overstory including ash/paper birch mix. Some areas are heavier to E-type but small areas. Many blow downs. Tamarack is mostly dead and going down. Where overstory has blown over, black ash and balsam fir are regenerating.
8	42340 - Upland Spruce/Fir	High Density Sapling	7.1	16		Mostly upland with some low ground with tag alder. Some areas are old strip cuts treated in 1960' or 1970's.
9	42350 - Upland Hemlock	High Density Log	10.4	139		Stand of mature hemlock on ridge. Also, a few old strip cuts in northern portion of stand that were treated in 1966. E-W road through stand.
10	4134 - Aspen, Spruce/Fir	Low Density Sapling	46.0	12		Stand is about 60% high land and 40% low land. Scattered hemlock and cedar trees and pockets. Also, scattered beech seedlings/saplings. Stand last treated in 1998. Other species observed: tamarack, red maple.
12	42340 - Upland Spruce/Fir	High Density Sapling	14.5	17		Mostly upland but some lowland with black ash and tag alder in lower areas. Nice mix of upland conifer with balm and red maple. Cedar is residual from last treatment in 1994.

S t	Escanaba Mgt. Unit			5 – Fo	prested Sta	nds Compartment: 047 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
13	4130 - Aspen	High Density Pole	39.7	56	111-140	Mostly high ground. Aspen is overmature and declining. Other species observed: hemlock, white spruce.
14	6115 - Lowland Ash	High Density Pole	12.6	90	111-140	Lowland swale and low areas.
15	42110 - Planted Red Pine	High Density Pole	11.4	18	141-170	Trees 1 to 1.5 sticks/tree. Thin next entry when trees are 2 to 3 sticks/tree.
17	6120 - Lowland Cedar	High Density Pole	64.9	140		<ul> <li>The majority of the stand is mature cedar with some sweep and windthrow. Much of the southern portion has overstory of deciduous trees and in places is nearly all E-type. The E-types are too small to map.</li> <li>North portion has old strip cuts from treatments in 1960's. Cut strips are mainly 30 % balm, 30% black ash, 30% paper birch and 10% balsam fir with some balsam fir regen in the understory. Central portion has a couple of 1-2 acre islands that were treated in 1983 and have regenerated to aspen which are 2-3" dbh. Other species observed: yellow birch, black spruce, balsam fir, red maple.</li> </ul>
18	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	5.6	84	141-170	Stand has some high land but mostly lowland. Some trees are blowing over.
19	4130 - Aspen	High Density Sapling	22.7	4		Nice regen, 10-20 feet tall, mostly well-stocked but some areas are medium stocked. White pine residual are mostly limby wolf trees. Other species observed: ironwood, cedar and hemlock. C and H are residual from last treatment.
21	4319 - Mixed Upland Forest	High Density Log	13.4	81	141-170	Mostly upland with a drain through it. Most of stand is Mr/H type but some areas are more red maple type while others are E-type and others are nearly pure hemlock type. Understory species are in the E-type pockets. Other species observed: white pine.
22	4191 - Mixed Upland Deciduous with Conifer	High Density Log	19.7	73		SCABig Cedar River riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat. Mostly high ground but some areas are lowflood plain. Also, an old river channel runs along a portion of the stand.
23	4113 - R.Maple, Conifer	Medium Density Pole	22.6	62	81-110	Other species found: paper birch, white spruce, beech
24	4199 - Other Mixed Upland Deciduous	High Density Pole	0.3	25		Two small islands in Big Cedar River. Observed from west bank of river. Not previously inventoried. Observed wood duck boxes on south end of south island. SCABig Cedar River riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.
26	4119 - Mixed Northern Hardwoods	High Density Pole	24.1	84	81-110	Birch is dying out. NW portion of stand is wetter with some upland with paper birch/red maple type and some black ash type with tag alder in understory. Stand also wetter along the western boundary near lowland brush type.

S t	Escanaba Mgt. Unit			5 – Fo	prested Sta	nds Compartment: 047 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
27	4133 - Aspen, Mixed Pine	High Density Pole	6.1	86	111-140	Old state forest campground is in this stand. Other species observed: white spruce. SCABig Cedar River riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.
28	4112 - Maple, Beech, Cherry Association	High Density Log	0.4	80		Island in Big Cedar River not previously inventoried. Might also have silver maple. SCA riparian corridor.
29	4130 - Aspen	High Density Sapling	28.1	32		Stand mostly upland but some lowland and swales with ash, tag alder and Michigan holly. Main stand growing well and wel stocked. Stand has several pockets of hemlock and cedar. Also, scattered individuals of hemlock, cedar, super-canopy white pine/red pine and beech. Other species observed Hemlock log, cedar poles, paper birch saplings and beech saplings/poles.
31	4113 - R.Maple, Conifer	High Density Log	19.0	76	111-140	Stand encompasses portions of the old state forest campground. Mostly upland but also contains an ash swale in the middle of the stand. Other species observed: red pine, green ash, hemlock. SCABig Cedar River riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.
32	6123 - Lowland Fir	Medium Density	17.7	25		Mostly lowland with some upland. Occasional low stocked areas. A grassy old beaver pond (?)/vernal pool in the east central portion of the stand that is dry nowperimeter with willow. A red/white pine upland area in the southeastern portion of the stand.
33	4133 - Aspen, Mixed Pine	High Density Sapling	16.6	4		Nice regen. Residual white pine in good shape.
34	4112 - Maple, Beech, Cherry Association	High Density Pole	6.6	79	81-110	Other species observed: white spruce log, aspen pole.
35	429 - Mixed Upland Conifers	High Density Pole	41.2	16		Mostly upland (65%) but some lowland. Last treated in 1994. Scattered pockets of mature hemlock and cedar as well as scattered individuals of log/pole red maple, hemlock,cedar, white/red pine and beech.
36	4133 - Aspen, Mixed Pine	High Density Pole	34.6	49	81-110	Portions of stand treated in 2006. Creek near south border of stand. Other species observed: white spruce.
38	42200 - Natural White Pine	Medium Density Log	10.4	74	111-140	Stand variablesome areas mostly white pine, others are more mixed upland deciduous/conifer and some mostly red pine. Last treated in 1984 except eastern portion treated in 2006.
39	4130 - Aspen	High Density Pole	68.7	27		Mostly upland (65%) with lowland (35%). Lowland has black ash, balm and tag alder. Other species observed: paper birch, white spruce.

S t	Escanaba Mgt. Unit			5 – Fo	prested Sta	nds Compartment: 047 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
40	42200 - Natural White Pine	Low Density Log	6.3	85		East portion of stand white pine with some red pine. West portion is M6 with red maple, paper birch and some quaking aspen and white pine. Stand last treated in 2006. Most of stand is about 50% canopy closer but some is more and some is less.
41	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	43.0	90	141-170	Northern hardwood type in the south and central portions but more hemlock/white pine and cedar types in the northern portion. Some portions are flood plain. Other species observed: red pine. SCABig Cedar River riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.
42	4130 - Aspen	Medium Density	11.5	4		Generally decent regen. Mostly well stocked but lighter in some areas. Mostly upland but some lowland, too. Scatter white pine log and beech pole trees. Red maple and black ash stump sprouts are browsed but some will make it above the deer this year. Other species observed: red pine.
43	42210 - Natural Red Pine	High Density Log	47.7	76		Very nice quality poles. More white pine in northeastern portion of stand.ORV trail runs through north and eastern portions of stand. Trees are dying in the northwestern portion of the stand and should be examined by pathologist.
44	4139 - Aspen, Mixed Deciduous	Medium Density	16.6	5	1-50	Stand shelterwood cut in 2005. Mostly aspen suckers and red maple stump sproutsnice growth. Also, some beech regeneration scattered through the stand. Residual hemlock, cedar, red maple and ash poles and white and red pine logs. Some areas are heavy to w/r pine sawlog trees.
46	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	12.0	14		Most of stand is lowland but some is upland. Most of stand is medium stocking density but patches are well stocked and some are low density. Some residual cedar poles have blown over. Stand last treated in 1995-96. Other species observed: white spruce.
47	6132 - Mixed Lowland Forest with Cedar	Low Density Pole	49.3	95	81-110	Most of stand e-type with cedar. More cedar in northern portion of stand. Lots of tag alder and holly in understory throughout.
48	4133 - Aspen, Mixed Pine	High Density Sapling	11.2	26		Stand is variable but most of stand is A3/R7 with some areas heaverier to red and white pine logs and some mostly red pine.
50	4136 - Aspen, Mixed Conifer	Medium Density	34.8	11		Mostly slightly upland with patches of upland and lowland/swales. Scattered white/red pine logs, hemlock logs and cedar poles. Swales of black ash and cedar and tag alder. Other species observed paper birch poles and white pine seedlings/saplings.
51	4130 - Aspen	High Density Pole	33.3	39		Approx 70% upland and 30% lowland. Some lowland areas are green/black ash swales with balsam fir, others are black ash and tag alder. The N-S road goes between what appears to be two vernal pools in the central portion of the stand. Other species observed: cedar, paper birch.

S t	Escanaba Mgt. Unit			5 – Fo	prested Sta	nds Compartment: 047 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
52	6120 - Lowland Cedar	Low Density Pole	20.2	95		Mostly scattered cedar poles and saplings with 1-2 sticks/tree. Many leaners with sweep. Smaller trees in northern portion and bigger trees with more black ash and black spruce in the southern portion. Lots of tag alder and holly throughout stand.
53	6120 - Lowland Cedar	Medium Density Pole	11.5	105		Found several pockets of phragmites throughout the stand. Largest area is in the central portion of the stand. This area may be most difficult to remove since it is growing in the understory of the cedar poles. Observed blown-over cedar through the stand.
54	6115 - Lowland Ash	Low Density Pole	13.7	80		Mostly scattered trees but occasional pockets of well stocked poles. Heavy to tag alder throughout.
55	42340 - Upland Spruce/Fir	Low Density Sapling	16.1	16		Mostly upland but lowland, too. Most of stand is low stocked but pockets are well-stocked. Other species observed: red and white pine.
57	42290 - Natural Mixed Pine	High Density Log	20.6	95	51-80	Stand variable. SE corner of stand is lowland spruce.
58	4133 - Aspen, Mixed Pine	Medium Density Pole	13.2	71	111-140	Most of stand is on N-S ridge. ORV trail uses N-S road through stand. Big-toothed aspen is over-mature. West and east edges of stand steep slope but operable.

Escanaba Mgt. Unit

### 6 – Nonforested Stands

Compartment: 047 Year of Entry: 2013



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
5	3301 - Low Density Deciduous Tree	9.8	No	Unspecified	
11	6220 - Alder/willow	53.8	No	Unspecified	
16	3102 - Grass	2.2	No	Unspecified	old abandonded field on 1925 maps. A few conifers are starting to grow along the perimeter.
20	3104 - Degraded	4.4	No	Medium (NonForested)	
25	50 - Water	9.0	No	Unspecified	Big Cedar River
30	6220 - Alder/willow	13.7	No	Low (NonForested)	Previous inventory notes mention beaver ponds.
37	6220 - Alder/willow	2.6	No	Low (NonForested)	
45	6220 - Alder/willow	35.5	No	Unspecified	
49	6220 - Alder/willow	11.7	No	Unspecified	
56	6220 - Alder/willow	6.5	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 Туре	SCA Name	Acres	Comments
22	Unique Site - SCA	33047022	19.7	SCABig Cedar River riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.
24	Unique Site - SCA	33047024	0.3	SCABig Cedar River riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.
27	Unique Site - SCA	33047027	6.1	SCABig Cedar River riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.
28	Unique Site - SCA	33047028	0.4	SCABig Cedar River riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.
31	Unique Site - SCA	33047031	19.0	SCABig Cedar River riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.
41	Unique Site - SCA	33047041	43.0	SCABig Cedar River riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.



### 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	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen stocked trout populations and those of other coldwater fish year to year. Coldwater streams in Michigan typically provid contributions of groundwater to their stream flows. Such stre designated as trout resources by Fisheries Order 210.	species (e.g., slimy sculpin) to persist from e these conditions due to substantial





