

Escanaba Forest Management Unit Compartment Review Presentation Compartment # 55 Entry Year: 2013

Compartment Acreage: 1049 County: Menominee

Revision Date: July 18, 2011

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

Legal Description: T35N R25W, Sections 03 and 10

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 77 % of the compartment and include mostly northern hardwoods with aspen and spruce/fir forest types. Lowland types are about 23% and include mostly lowland deciduous and lowland brush with mixed conifer and lowland deciduous timber types. The water type is the Big Cedar River and Elwood Creek. There are several unnamed streams through the compartment and no lakes.

Approximately 339 acres comprising 11 stands are proposed for treatment. Of the proposed treatments, approximately 101 acres (4 stands) are clearcut with reserves, 203 acres (5 stands) are partial cuts and 35 acres (2 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, Tawas-Deford, Onaway-Rousseau and Bowers-Ingalls and series of Solona and Wainola.

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 and the county road "Camp O" Road. 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 in the southern portion of the compartment along county road Town Road.

Unique, Natural Features: The Big Cedar River meanders north to south through the eastern portion of the compartment. Also, Elwood Creek flows west to east through the southern portion.

Archeological, Historical, and Cultural Features: There are no known features.

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 meanders north to south through the eastern portion of the compartment. Elwood Creek flows west to east through the southern portion. Several unnamed tributaries flow to the river. No named lakes lie with the compartment.

Wildlife Habitat Considerations: This compartment is within the Green Bay Lake Plain Management Area. The 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 in a number of stands that are being treated as final-stage shelterwood cuts. These treatments will release the

advanced regeneration that was promoted by harvests last decade. Upland conifer stands are utilized by 60-80 wildlife species in the U.P. Northern hardwood stands exhibit good vegetative diversity in this area, and diverse tree species (beech, hemlock, upland cedar, yellow birch, etc.) will continue to be encouraged in such stands to benefit wildlife. The riparian corridor along the Big Cedar River will be maintained as a special conservation area to promote mature forest conditions for wildlife that utilize this habitat. These mature forest areas near the river will provide large diameter trees, snags, cavity trees, and dead woody debris on the forest floor—attributes that are important to a large number of wildlife species.

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. A gravel pit is located on state land in the southern portion of section 10 along the Town Road. No economic oil and gas production has been found in the UP.

Vehicle Access: The main access into the compartment is from the south through a locked gate off the Town Road and the Camp "O" Road. The Forest Islands ORV Trail uses this forest road. The portion east of the Big Cedar River is accessed from County Road 551--Cedar River Road. Access is also available from the north via a forest road used by the Forest Islands ORV Trail.

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

Recreational Facilities and Opportunities: Forest Island ORV Trail utilizes several forest roads within the compartment. Other recreational opportunities within this compartment include hunting, trapping, fishing 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

Compartment 055 Year of Entry 2013

Escanaba Mgt. Unit Joseph Durbin : Examiner



Age Class

							Age	Ciass									
	No.	Do See St.	8.7	\$7.0	in the second	\$5.05.	AD AS	\$5.05 /	8.0	1. P. J.	\$ 6	8.0	on on one	70,70	No. No.	RS /	No.
Aspen	0	79	0	90	48	0	0	0	0	0	0	0	0	0	0	218	ĺ
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	19	1
Hemlock	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	16	1
Herbaceous Openland	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	1
Lowland Aspen/Balsam Poplar	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	28	ĺ
Lowland Deciduous	0	0	10	0	0	0	0	0	25	48	0	0	0	0	0	84	1
Lowland Mixed Forest	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	28	ĺ
Lowland Shrub	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	ĺ
Mixed Upland Deciduous	0	36	0	10	21	0	0	0	0	0	0	0	9	0	0	76	ĺ
Northern Hardwood	0	0	0	0	0	0	0	40	262	47	23	0	55	0	0	426	1
Paper Birch	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5	
Upland Mixed Forest	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	10	1
Upland Spruce/Fir	0	0	29	9	23	0	0	0	0	0	0	0	0	0	0	60	1
Water	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	
Total	80	116	48	137	92	0	0	73	287	95	38	0	82	0	0	1049	
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Table 2 – Proposed Treatment Summaries

Escanaba Mgt. Unit

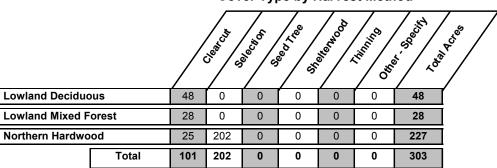
Compartment 055 Year of Entry 2013 **Total Compartment Acres: 1049**

Acres by Treatment Type

Commercial Harvest - 303 Site Prep - 0 Tree Planting - 0 Prescribed Burn - 0 Other - 0

Habitat Cut - 0 Tree Seeding - 0 Pesticide - 35 Opening Maintenance - 0

Cover Type by Harvest Method



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	150
DNR	10
12	19
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S t		Esca	naba Mgt. Unit			atments Pre imiting Fac		Compartment: 055 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
9	33055009- CCw/R	25.1 N	4119 - Mixed Iorthern Hardwoods	Medium Density Pole	75	Harvest	Clearcut with Reserves	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
Prescri Specs:							t all hardwood species, b d birch trees in lowland s		
Other Comm	ents: signed f	or logging	activity and logger m	ust use extreme ca	are when	operating in the	rail does not traverse thro e stand to avoid ORV use hauling (high ORV use) i	ers. No decking is allow	
Next Steps:		ble regene next entry		cture of suckers, st	ump spro	outs and seed o	rigin seedlings of current	species. Check for re	generation
17	33055017-SC	32.4	4112 - Maple, Beech, Cherry Association	High Density Pole	69	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
Prescri Specs:			0 residual basal area. diversity. Follow in-st			rch and beech.	Create some canopy ga	os to encourage regene	eration.
Other Comm		located a	long County Road-55	1. Maintain appro	priate bu	ffer along draina	age.		
Next Steps:			eration includes a mix te well. Check for re				dlings of current species.	Balsam fir and white p	ine will
21	33055021- CCw/R	27.8	6139 - Mixed Lowland Forest	Low Density Pole	66	Harvest	Clearcut with Reserves	6139 - Mixed Lowland Forest	Cmpt. Review Proposal
Prescri Specs:							t all hardwood species, b ttered ash and birch tree:		
Other Comm		atmant is t	he final harvest of a μ	oreviously started s	helter-w	ood cut. Mainta	in appropriate buffer alor	ng drainage.	
Next Steps:		ble regene next entry		cture of suckers, st	ump spro	outs and seed o	rigin seedlings of current	species. Check for re	generation
22	33055022-SC	7.4	4112 - Maple, Beech, Cherry Association	High Density Pole	61	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
Prescri Specs:		ut to 70-8	0 residual basal area.	. Retain hemlock a	and beec	h. Follow in-sta	and retention guidelines.		
Other Comm	ents: activity a	and logger		are when operating	in the st	and to avoid Of	hrough the stand but the RV users. No decking is use) is not allowed.		
Next Steps:	Accepta entry OI	•	eration includes a mix	cture of stump spro	uts and s	seed origin seed	dlings of current species.	Check for regeneratio	n success next
23	33055023- CCw/R	12.9	6115 - Lowland Ash	High Density Pole	81	Harvest	Clearcut with Reserves	6115 - Lowland Ash	Cmpt. Review Proposal
Prescri	ption Clear cu	t with Res	ervesCut all trees e	except cedar, hemic	ock, pine	and yellow birc	h. Also, mark scattered	(green tree) trees to ref	ain for seed

Specs: source.

<u>Other</u> Maintain appropriate buffer along drainage. Comments:

Acceptable regeneration includes a mixture of suckers, stump sprouts and seed origin seedlings of current species. Check for regeneration success next entry OI. <u>Next</u> Steps:

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s		Esca	naba Mgt. Unit			atments Pro		Compartment: 055 Year of Entry 2013	TOF NATURAL PROPERTY OF THE PR
t a				•••				,	DNR
n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
24	33055024-SC	125.1	4112 - Maple, Beech, Cherry Association	High Density Log	75	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
Presc Specs		cut to 80-9 neration.	00 residual basal are	a. Retain hemlock a	and most	of the beech.	Follow in-stand retention	guidelines. Create son	ne canopy gaps
Other Comn	nents: operatir season-	ig in the s weekend	tand to avoid ORV u	sers. No decking is	allowed	along the trail a	If for logging activity and loand hauling is restricted to lebris in this stand since in	week days only during	the ORV
Next Steps			eration includes a m	ixture of stump spro	uts and	seed origin see	dlings of current species.	Check for regeneratio	n success next
37	33055037-SC	11.0	4112 - Maple, Beech, Cherry Association	High Density Log	90	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
Presc Specs			dual basal area of 80 opy gaps for regene		k, cedar	and beech. Ma	intain species diversity. F	Follow in-stand retention	n guidelines.
Other Comn	nents: care wh	en operat		oid ORV users. No	decking		well signed for logging a gethe trail and hauling is i		
Next Steps			eration includes a m	ixture of stump spro	uts and	seed origin see	dlings of current species.	Check for regeneratio	n success next
38	33055038- CCw/R	35.5	6115 - Lowland Ash	High Density Pole	82	Harvest	Clearcut with Reserves	6115 - Lowland Ash	Cmpt. Review Proposal
Presc Specs							t all hardwood species, buttered ash and birch trees		
Other Comn									
Next Steps		ible regen s next enti		ixture of suckers, st	ump spro	outs and seed o	origin seedlings of current	species. Check for req	generation
40	33055040-SC	26.4	4110 - Sugar Maple Association	High Density Pole	70	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
Presc Specs	Create	some can		ration. Clear-cut Sco	otch pine	e plantation in th	intain species diversity. Fine northeastern portion of		
Other Comn	nents:								
<u>Next</u> Steps			eration includes a m	ixture of stump spro	uts and	seed origin see	dlings of current species.	Check for regeneratio	n success next
44	33055044- Spray	26.2	4130 - Aspen	Medium Density Saplin	6	Pesticide	Injector	4130 - Aspen	Cmpt. Review Proposal

Prescription Pest control. Spray/inject all autumn/Russian olive shrubs. Cut and remove scotch pine trees. Most of the olive is in the southern portion of the stand along the boundary of stand 44. Most of the scotch pine is in the northern portion of the stand near the boundary of stand 40. How will

pest treatments be funded?

<u>Other</u> SCA located along river.

Comments:

Periodically check for effectiveness of treatment.

<u>Next</u> Steps:

Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 055
Year of Entry 2013

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a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status	
46	33055046- Sprav	9.1	4134 - Aspen, Spruce/Fir	Medium Density Saplin	8	Pesticide	Hand Sprayer	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal	

<u>Prescription</u> Pest control. Treat scattered pockets of phragmites. Phragmites was found along the north side of Camp "O" road.

Specs:

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Other How will pest treatments be funded?

Comments:

Next Periodically check for effectiveness of treatment.

Steps:

Total Treatment

Acreage Proposed: 338.8

Escanaba Mgt. Unit Table 4 -- Treatments Prescribed with Compartment: 055 a Limiting Factor s Year of Entry 2013 t **Treatment Cover Type** n **Treatment Acres** Stage1 Size Stand **Treatment Approval** Name CoverType Density Method Objective Status Age Type d #Error **Prescription** Specs: <u>Other</u> Comment: <u>Next</u> Steps: Limiting Factor and No

Total Treatment
Acreage Proposed:

Treatment Reason

0

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

Year of Entry: 2013

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status	
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:

<u>Other</u> Decent quality tamarack and spruce stand.

Comments:

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

Steps:

Total Treatment

0.7 Acreage Proposed:

s t	Escanaba Mgt. Unit			5 – Fo	orested Sta	nds Compartment: 055 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	High Density Pole	17.7	34		Red and white pine stand in the north western portion of the stand. Mr/A type along the eastern border of the stand (includes red maple poles, quaking aspen log, white pine log, red pine log, hemlock log). Other observed species: balsam fir, red maple, red pine, white spruce.
2	4134 - Aspen, Spruce/Fir	High Density Pole	30.7	35		Stand about 60% upland and 40% lowland. In north eastern portion of stand is an upland area of Mr/p birch which could be treated next entry. Several pockets of hemlock with some red and white pine are scattered within the stand. Other observed species: hemlock, cedar. Some lowland areas have tag alder and ash.
3	6115 - Lowland Ash	High Density Pole	25.4	79	111-140	Stand includes other small timbered stands: black spruce saplings/poles stand in NE corner and paper birch/red maple poles central area and pockets of hemlock and cedar log/pole. Observed quite a bit of blown-down/leaning cedar. Other observed species: black spruce, white pine, yellow birch, hemlock, balsam fir.
4	42350 - Upland Hemlock	Medium Density Log	15.6	92		Hemlock and white pine on ridge Last treated in 1988.
5	4191 - Mixed Upland Deciduous with Conifer	Medium Density	36.4	4	51-80	Red maple are decent but some are browsed. Some areas are nice regeneration to quaking aspen and balm. Stand is about 65-70% upland and 35-30% lowland. Occasional pockets of hemlock and scattered hemlock, cedar, green ash and red maple. Other species observed: red pine, balm and green ash.
6	42330 - Upland Fir	Medium Density	8.5	22		Scattered white pine and hemlock residual log/poles. Last treated in 1988.
8	4112 - Maple, Beech, Cherry Association	High Density Log	41.0	80	81-110	Nice quality logs and poles Some hard and soft snags observed. Leatherwood common Mostly upland (about 90% upland, 10% lowland). Stand last treated in 2006. Other species observed: beech, black cherry.
9	4119 - Mixed Northern Hardwoods	Medium Density Pole	25.1	75	81-110	Mostly upland with some lowland (70%-30%). Nice red maple stumps sprouts (4-6 feet tall) in some areas. Low areas have more ash component. Other species observed: white spruce, beech.
10	4112 - Maple, Beech, Cherry Association	High Density Pole	33.3	70	81-110	Stand is mostly upland (70%) with northern portion lowland with a small stream. Northwestern portion is more paper birch/red maple type. Lowland areas are more ash. Some upland areas could be selectcut now but could wait until next entry. Stand last treated in 2000. Other observed species: beech, balsam fir, white pine, yellow birch, cedar and quaking aspen.
11	4110 - Sugar Maple Association	High Density Log	6.0	80	111-140	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. Nice quality sugar maple poles and log trees. Some den trees and snags. Cedar along river. Other species observed: paper birch.

s t	Escanaba Mgt. Unit			5 – Fe	orested Sta	nds Compartment: 055 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
12	4190 - Mixed Upland Deciduous with Cedar	High Density Log	8.8	110	141-170	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.
						Flood plain of river. Found grape vine, hard and soft snags and den trees. Other specie observed: paper birch.
13	4119 - Mixed Northern Hardwoods	High Density Pole	22.8	70	81-110	Mostly 70% upland with about 30% lowland. Regeneration mostly unsuccessful due to high residual basal area and deer browse. Lowloand areas are mostly impeded drainage and ash swales. Other species observed: beech, yellow and paper birch, balsam fir, hemlockall poles.
14	4119 - Mixed Northern Hardwoods	High Density Log	11.7	90	111-140	SCABig Cedar River riparian corridor and small stream buffer. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.
						Observed overmature quaking aspen log trees and scattered white spruce log trees Other species observed: white spruce log, quaking aspen log, hemlock poles, cedar poles, beech saplings, paper birch poles.
15	42360 - Upland Cedar	Medium Density Log	7.5	115	111-140	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.
						Flood plain. Lots of grape vine in places. Other species observed: white spruce, basswood.
16	4130 - Aspen	High Density Sapling	80.8	26		North half cut in 1990; south half cut in 1984. Mostly upland but some lowland in NW portion of the stand. Scattered beech and in pockets on ridge tops. No sign of beech bark disease. Other species observed: red maple saplings/stump sprouts.
17	4112 - Maple, Beech, Cherry Association	High Density Pole	32.4	69		Mostly upland 80% with lowland 20% in wetter areas and swales. Last treated in 1990. Pockets of hemlock and cedar. A small opening is filling in. A small red pine log area near opening. Occasional beech and yellow birch poles and saplings.
19	4110 - Sugar Maple Association	High Density Log	54.7	115	111-140	SCABig Cedar River riparian corridor and visual road buffer. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.
						Stand is variable with pockets of hemlock and cedar and pockets red pine and beech. Portions of stand are flood plain. Observed areas with very large hardwood trees with snags and den trees. Very few white pine. Found grape vines scattered through stand along the river. Observed a vernal pool adjacent to an old logging road leading to the river bank. No sign of eagle nest. Other species observed: white spruce logs, cedar poles, yellow and paper birch poles.
20	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	20.6	30		North and south portions are upland with the central portion lowland with ash and tag alder. Patches of cedar poles and some scattered hemlock poles and beech poles, other areas have pockets of quaking aspen and balm. Grassy opening has filled in with balsam fir and balm. Other species observed: beech poles hemlock poles/logs, cedar poles, balm saplings.

s t	Escanab		5 – Fo	orested Sta	Compartment: 055 Year of Entry: 2013		
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
21	6139 - Mixed Lowland Forest	Low Density Pole	27.8	66	51-80	Mostly upland 70% with lowland 30%. Last treatment shelterwood in 2006-07. Regeneration success slow due to high residual basal area and deer browse though some stump sprouts have grown above browse height. Other species observed: yellow and paper birch.	
22	4112 - Maple, Beech, Cherry Association	High Density Pole	7.4	61	141-170	Mostly upland but some lowland, too. Other species observed: cedar poles, black ash poles, balsam fir poles, paper birch poles.	
23	6115 - Lowland Ash	High Density Pole	12.9	81	81-110	Stand mostly lowland 80% but some upland 20%. EAB could devastate this stand. Low ridge with road in SE corner of the stand. Other species observed: balm log, yellow and paper birch poles.	
24	4112 - Maple, Beech, Cherry Association	High Density Log	125.1	75	111-140	Stand is rolling terrain. Mostly upland 90% with some lowland 10%. More hemlock in NW portion in the understory. Occasional woly beech trees. Wetter portions with cedar, ash and/or hemlock. Some areas are heavier to sugar maple with nice quality poles and logs. Stand last treated in 1999-2000. Other species observed: white ash, baswood, beech, paper and yellow birch, hemlock, cedar, quaking aspenall species poles and/or logs.	
25	4112 - Maple, Beech, Cherry Association	High Density Pole	22.1	75	111-140	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 upland but some areas with impeded drainage and flood plain. Most of the banks are high and areas are eroding on the curves. Some areas have more paper birch and pockets of hemlock and some of cedar. Other ospecies observed: yellow birch poles, hemlock and white pine logs and beech, white ash, cedar, and ironwood poles.	
27	4319 - Mixed Upland Forest	Low Density Sapling	9.8	12		Mostly upland 80% with some lowland 20%. Crown closure is variable but mostly 25-50% with areas that are 50-75 and some 0-25%. Pockets are hemlock and/or cedar residual from last treatment. Some cedar residual have blown over. Some lower areas have scattered tag alder.	
28	4130 - Aspen	Medium Density	62.0	4		Stand about 50% upland and 50 lowland. Most of the lower ground is along the perimeter. Residual trees are beech, ash and elm. Some of the elm have died. Some lower areas have ash stump sprouts growing well and above the browse line and tag alder. Most of the stand is medium stocked but some areas are well stocked while other areas are poorly stocked but filling in.	
29	4110 - Sugar Maple Association	High Density Log	7.1	75	141-170	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. Most of stand high bank but northeast portion is flood plain. Occasional cedar along bank. Beaver working aspen trees near river. A few beech and ironwood seedlings/sapling throughout the stand but not enough to tally. Other species observed: white ash, basswood, red maple, quaking aspen, paper birch and beech.	

s t	Escanaba Mgt. Unit			5 – Fo	orested Sta	nds Compartment: 055 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
31	6120 - Lowland Cedar	Medium Density Log	11.4	110	171-200	Mostly cedar in the northern portion but more ash in the southern portion. Observed no deer sign inhabiting area but flushed several grouse. Other species observed: elm, green ash and paper birch.
32	6112 - Lowland Aspen	High Density Pole	28.3	25		Most of stand (north and south portions) is upland but with occasional impeded drainage but the central portion is lowland ash type. NE corner is mature P type with balm and aspen and could be treated in the future. The more upland areas have somewhat larger trees 7-8" dbh. Other species observed: balsam fir, white spruce, red maple, cedarall poles.
33	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	10.0	18		Mostly lowland but some upland along the east boundary of stand. Mostly full canopy but some areas more open with tag alder. Southern portion mostly ash and northern and central areas more balm. Other species observed: paper birch, white spruce, quaking aspen and cedar.
34	42330 - Upland Fir	Low Density Sapling	28.7	16		Stand is variable. Most of the stand is 25-50% stocked, but some areas are fully stocked while other are quite open but filling in with balsam fir. Other species observed: white pine, beech and tamarack.
35	4140 - Other Upland Deciduous	High Density Pole	5.4	69	141-170	SCASmall unnamed stream riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.
						Several pockets of cedar. Other species observed: balsam fir, yellow birch.
36	4191 - Mixed Upland Deciduous with Conifer	Low Density Sapling	9.9	20		Stand a real mix of typesareas of balm, aspen, hemlock balsam fir, cedar, open and a sand pit. Other species observed: beech, red maple.
37	4112 - Maple, Beech, Cherry Association	High Density Log	11.0	90	111-140	Last treated in 1980's. Other species observed: beech, hemlock, cedar, balsam fir logs/poles.
38	6115 - Lowland Ash	High Density Pole	35.5	82	81-110	Site is not really lowland but not upland eitherperhaps just high water certain times of the year. First stage of shelterwood harvest in 2002. Regeneration was poor due to high residual basal area. Other species observed: yellow and paper birch, white spruce, beech, cedar, basswood.
40	4110 - Sugar Maple Association	High Density Pole	26.4	70	111-140	Found occasional large wolfy beech in the stand. Other species observed: yellow birch, cedar and beech. NE corner has 2 small plantations. East plantation is white spruce 32 years old, ave 6 inches dbh 2-3 stick/tree. West plantation is scotch pine also 32 or 33 years old and very poor form, dead tops and very crooked. It is the seed source for scotch pine seedlings in the opening to the south and it should be treated by clearcut by chipping, if possible. Also, found autumn/Russian olive in this plantation.

S t a n d	Escanaba Mgt. Unit			5 – Forested Stands			Compartment: 055 Year of Entry: 2013	DNR
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		General Comments:	AICHIGAN .
42	42330 - Upland Fir	Medium Density Pole	22.7	30		mostly balsam fir type w there is a drain/swale ir with tag alder. Some por map and could be resid spruce budworm dama	but some lowland about 3 ith some areas more lowlar the middle of the stand the tions are nearly mature but dual trees from treatment in ge in the stand. SE corner species observed: cedar,	and ash and at is grassy t too small to n 1990. No r of stand is
43	4130 - Aspen	High Density Sapling	9.1	20		, .	some lowland 20%. Most ne areas are heavier to bal	
44	4130 - Aspen	Medium Density	8.2	6		,	but some areas are more olive is dense in most of s	•
46	4134 - Aspen, Spruce/Fir	Medium Density	9.1	8		along the north side of C	some lowland 25%. Foundamp O Road. Other specie red maple saplings/stump	es observed:

6 - Nonforested Stands

Compartment: 055 Year of Entry: 2013



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
7	629 - Mixed non-forested wetland	13.5	No	Unspecified	marsh grass Small creek through stand.
18	50 - Water	20.6	No	Unspecified	Big Cedar River
26	6220 - Alder/willow	17.6	No	Unspecified	Hemlock and hardwood on islands along the west border could be managed with the adjacent compartment to the west.
30	50 - Water	1.3	No	Unspecified	Big Cedar River
39	50 - Water	1.8	No	Unspecified	Big Cedar River
41	3102 - Grass	17.4	No	Low (NonForested)	SCABig Cedar River riparian corridor. Forest conditions will be maintained to promote snags and dead woody debris for wildlife habitat.
					Grassy opening with scattered tag alder in the south eastern portion of stand and white spruce along the perimeter Occasional scotch pine seedlings/sapling mostly in the northern portion of the stand. Recent deer blind in middle of the stand on low hill
45	6220 - Alder/willow	8.3	No	Low (NonForested)	SCAElwood Creek riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.
					Portions are fully stocked Ash in the flood plain in the north east portion of the stand and portions along the creek.

Compartment: 055 Year of Entry: 2013



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
11	Unique Site - SCA	33055011	6.0	SCA-Big Cedar River riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.
12	Unique Site - SCA	33055012	8.8	SCA-Big Cedar River riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.
14	Unique Site - SCA	33055014	11.7	SCABig Cedar River and small creek riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.
15	Unique Site - SCA	33055015	7.5	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.
19	Unique Site - SCA	33055019	54.7	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.
25	Unique Site - SCA	33055025	22.1	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.
29	Unique Site - SCA	33055029	7.1	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.
35	Unique Site - SCA	33055035	5.4	SCA-Small stream riparian corridor-small stream feeder to Elwood Creek. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.
7	Unique Site - SCA	NF_33055007-SCA	13.5	SCA-Small stream riparian corridor and buffer-small stream is a feeder to Elwood Creek. This area is part of a larger wetland complex located to the west and along a small feeder stream to Elwood Creek. This area provides habitat for sensitive grassy wetland plant and wildlife species.
26	Unique Site - SCA	NF_33055026-SCA	17.6	SCA-Small stream riparian corridor and buffer-small stream is a feeder to Elwood Creek. This area is part of a larger wetland complex located to the west and along a small feeder stream to Elwood Creek. This area provides habitat for sensitive wetland plant and wildlife species. On the included islands, mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.

Compartment: 055 Year of Entry: 2013



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
41	Unique Site - SCA	NF_33055041-SCA	6.2	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.
45	Unique Site - SCA	NF_33055045-SCA	8.3	SCA-Elwood Creek riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat.

Compartment: 055 Year of Entry 2013



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	scription HCVA = High Conservation Value Area SCA = Special Conservation Area			
SCA	Cold Water Stream	stocked trout populations and those of other co year to year. Coldwater streams in Michigan ty	olved oxygen conditions that allow naturally-reproduced or oldwater fish species (e.g., slimy sculpin) to persist from rpically provide these conditions due to substantial ows. Such streams are established by Director's action and der 210.			

