

Escanaba Forest Management Unit Compartment Review Presentation Compartment: 058 Entry Year: 2014

Compartment Acreage: 966 County: Menominee

Revision Date: 05/21/2012

Stand Examiner: Dustin Salter, FRD

Legal Description: T35N R26W Sections 1, 12, and 13

Management Goals: This compartment is comprised primarily of three different cover types. The major cover type is Lowland Conifer, cedar and tamarack are the primary species but some of the lowland stands are mixed with some lowland hardwood species. This entry period we will be cutting 140 acres of tamarack, cedar, and lowland mixed stands. The next major cover type is aspen. This cover type has been managed in the past so there is a mix of age classes. This entry period we will be cutting 44 acres. There are two small aspen stands that were set up for treatment in 2012 with some stands in compartment 54. Upland mixed deciduous is the last major cover type. This area grows poor quality hardwoods, primarily red maple, ash, and birch. This entry period we will be final harvesting 35 acres of hardwood with the intention of regenerating these stands to a mix of hardwood species via stump sprouting.

Soil and Topography: Topography is level with some gently rolling hills. Soils include well-drained sandy loams and poorly drained black muck over loam and sandy loam. Prominent soil series are Cathro-Ensley, Lupton-Cathro, Onaway sandy loam, Onaway-Nadeau, and Ingalls fine sand.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is within a block of state land that is eight miles wide and twenty miles long on the east half of Menominee County. There are no private in-holdings within this compartment but the entire north and west sides of the compartment are owned by private landowners. The land to the east and south of this compartment is all state forest land. The privately owned lands outside of the compartment boundary are a mix of agricultural and forest. There are many camps and residences within a quarter of a mile from the edges of the compartment. The primary uses for the private land and state forest land are agricultural, timber production and recreation.

Unique, Natural Features: None Known

Archeological, Historical, and Cultural Features: None Known

Special Management Designations or Considerations: None Known

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: Compartment 58 is part of the Green Bay Lake Plain Management Area. Many stands in this management area demonstrate 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. Cedar and hemlock provide important wildlife habitat in this management area, but regeneration of both species has been problematic. Management will be aimed at maintaining these stands because they are of modest age. However, some well-planned experimental treatments may be undertaken. Corridors of mature forest will be maintained along some water courses for wildlife that mature

forest conditions. Featured wildlife species include white-tailed deer, wild turkey, wood duck and Blackburnian warbler.

Aspen: Three aspen stands will be treated. These areas will continue to provide high quality habitat for a number of game and nongame species.

Lowland Swamp Conifer: A portion of a large lowland swamp conifer stand will be treated. Wildlife initiated a discussion about the cedar in this stand and it was agreed that the only cedar to be removed would be that which was necessary to harvest the other species. This will maintain most of the value of this stand as winter wildlife cover.

Hardwoods: Three stands will be final harvested this rotation. These will provide additional browse and other food sources for wildlife in this area. One additional stand in the southwest corner of the compartment will be further reviewed by wildlife staff to determine if it should be harvested or continue to provide its current habitat.

Openings: Two openings, one in the north and one in the south, will be maintained as openings. In addition, if hard or soft mast species are present these may be treated to promote mast production.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel and medium-textured glacial till. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Trenton and Black River Formations underlie the glacial drift and are quarried for stone west of Escanaba. This area has not been leased previously. A gravel pit is located in the SW corner of Section 1 and there appears to be good gravel potential, especially on the upland drumlins. No economic oil and gas production has been found in the UP.

Vehicle Access: The primary access into the compartment is from the Westman Dam Road. The Westman Dam Road runs north and south about a half of a mile from the western edge of the compartment. There are two-track roads that split off and head into different parts of the compartment. There is a limited amount of roads within the compartment due to the large amount of lowland stands throughout it. The stands on the west side of the compartment are best accessed through private property. There are a number of stands that are scheduled for treatment that we will have to work on getting access through the private in order to harvest these stands.

Survey Needs: Some corners will need to be set in order to establish property lines for timber sales.

Recreational Facilities and Opportunities: There are no developed facilities within this compartment. The primary uses are hunting, camping, four-wheeling, snowmobiling, and fishing along the Walton River and Elwood Creek.

Fire Protection: This area has a very low probability of supporting a large forest fire. The landscape is very broken up with low wet ground. The Walton River and the Elwood Creek provides an adequate water source in a couple of locations within the compartment.

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 058 Year of Entry 2014

Escanaba Mgt. Unit

Dustin Salter: Examiner



	Age Class															
		80	02.00	2.5.	No. No.	D. L. C.	18 / S	80	, p. ?	\$ 8 S	8 /	00,700	\$7.0°	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		,
Aspen	54	49	165	23	12	0	23	21	0	0	0	0	0	0	346	
Cedar	0	0	0	0	0	0	0	0	10	0	0	12	177	0	200	
Herbaceous Openland	40	0	0	0	0	0	0	0	0	0	0	0	0	0	40	
Low-Density Trees	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	ĺ
Lowland Deciduous	0	0	0	0	0	0	0	0	22	0	0	0	0	0	22	
Lowland Mixed Forest	0	0	0	0	0	12	0	0	40	0	0	0	0	0	52	ĺ
Lowland Shrub	198	0	0	0	0	0	0	0	0	0	0	0	0	0	198	ĺ
Northern Hardwood	0	0	0	0	0	0	38	13	35	0	0	0	0	0	86	1
Upland Conifers	0	0	0	0	0	0	0	0	21	0	0	0	0	0	21	[
Total	293	49	165	23	12	12	61	34	128	0	0	12	177	0	966	



Table 2 – Proposed Treatment Summaries

Escanaba Mgt. Unit Year of Entry 2014

Compartment 058
Total Compartment Acres: 966.3

Acres by Treatment Type

Commercial Harvest - 241 Site Prep - 0 Tree Planting - 0 Prescribed Burn - 0 Other - 0

Habitat Cut - 0 Opening Maintenance - 38 Tree Seeding - 0 Pesticide - 0

Cover Type by Harvest Method

		Cover Type by Harvest Method								
The season of th							S. R. S.			
Aspen		44	0	0	0	0	0	44		
Cedar		0	0	88	0	0	0	88		
Lowland Deciduous		22	0	0	0	0	0	22		
Lowland Mixed Forest		52	0	0	0	0	0	52		
Northern Hardwood		35	0	0	0	0	0	35		
	Total	153	0	88	0	0	0	241		

Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 058 Year of Entry 2014

Mixed Deciduous

4139 - Aspen,

Incomplete

Fld. Tr. Bdy. -

t а n d

s

Treatment Acres CoverType Size Stand BA **Treatment Treatment Cover Type Approval** Density Method Status Name Objective Age Range Type 33058 OutOfY 5.9 Clearcut with Harvest 4139 - Aspen, Fld. Tr. Bdy. -

OE 1-Cut

Prescription Final harvest this stand. Leave white pine and elm for retention and diversity. There is also a thick understory of red maple in places that will

add to the retention.

<u>Other</u> Decent quality aspen with some pockets of smaller diameter aspen. Access is difficult to this stand, but it could be harvested when we harvest

Comments: stand 13.

Regeneration survey per work instructions. Management objective is aspen, but a mix of the current overstory species is acceptable. <u>Next</u>

Steps:

Specs:

<u>Proposed</u>

10/01/2011 Start Date:

> 33058 OutOfY 46 Harvest Clearcut with OE-Cut

Reserves Mixed Deciduous Incomplete

Reserves

Prescription Final harvest this stand. Leave white pine and elm for retention and diversity. There is also a thick understory of red maple in places that will

Specs: add to the retention.

Other_

Decent quality aspen with some pockets of smaller diameter aspen. Access is difficult to this stand, but it could be harvested when we harvest stand 13 in comp 54. Comments:

Regeneration survey per work instructions. Management objective is aspen, but a mix of the current overstory species is acceptable. <u>Next</u>

Steps:

Proposed Start Date: 10/01/2011

33058016-Cut 17.2 72 16 4130 - Aspen High Harvest Clearcut with 4130 - Aspen Cmpt. Review Density Log Proposal Reserves

Prescription Clearcut with reserves, retain enough birch, maple, ash, and cedar to meet the retention guidelines. Manage this stand for aspen, but a mix of

Specs: the other species is acceptable.

<u>Other</u> This stand was on contract previously to harvest, but it was not cut due to lack of access. The balsam fir and white birch are dying out of the

Comments: stand.

<u>Next</u> Steps:

<u>Proposed</u>

10/01/2013 Start Date:

33058017-Cut 10.2 4119 - Mixed Medium 51-80 Clearcut with 4113 - R.Maple, Cmpt. Review 17 65 Harvest Northern Hardwoods Reserves Conifer Proposal Density

Prescription Clearcut with reserves, cut all species except hemlock, beech(if present) and enough spruce, birch, and large wildlife maples to meet the

retention guidelines. Specs:

Other_ Comments:

<u>Next</u> Steps:

Proposed

10/01/2013 Start Date:

Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 058 Year of Entry 2014

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
18	33058018-Cut	88.1	6120 - Lowland Cedar	High Density Pole	121		Harvest	Seed Tree with Reserves	6121 - Tamarack	Cmpt. Review Proposal

Specs:

Comments:

s

Prescription Seedtree with reserves - Cut all species; except the cedar and mark enough spruce and tamarack seed trees to provide an adequate seed source. Use the cedar cutting specification when writing up the timber sale, to allow the contractor to cut the cedar needed to harvest designated

species.

Other_

This stand is a mix of lowland species. There are areas that have a higher density of cedar and other areas that are higher with tamarack. A large percentage of the cedar is poor quality, short and very small crowns.

<u>Next</u> Steps:

<u>Proposed</u>

10/01/2013 Start Date:

33058019-Cut 19

24.7

4112 - Maple, Beech, Cherry

High **Density Log**

81-110 65

Harvest

Clearcut with Reserves

4119 - Mixed Northern Hardwoods Cmpt. Review Proposal

Association

Specs:

Prescription Clearcut with reserves, cut all species except retain enough ash, beech, and large maple to meet the retention guidelines. The management objective for this stand is mixed hardwood.

Other_

Poor quality hardwood stand.

23 2

22.1

Comments:

<u>Next</u> Steps:

Proposed

10/01/2013 Start Date:

33058023-Cut

4136 - Aspen, Mixed Conifer

This stand was on contract 027-05-01 to be cut, but it never was.

High Density Log Harvest

Clearcut with Reserves

4136 - Aspen, Mixed Conifer Cmpt. Review Proposal

Prescription Clearcut with reserves, cut all species except retain all white spruce, hemlock, and beech. In addition mark enough birch and tamarack to meet

62

Specs:

23

the retention guidelines. Manage for primarily aspen, but a mix with the other species is acceptable.

Other_

Comments:

<u>Next</u>

Steps:

Proposed

10/01/2013 Start Date:

33058031-Cut 31

6115 - Lowland Ash Medium Density Pole

86

Harvest

Clearcut with Reserves

6119 - Mixed **Lowland Deciduous** Forest

Cmpt. Review Proposal

Prescription Clearcut with reserves, cut all species except retain enough clumps of cedar and some scattered tamarack and ash to meet the retention guidelines. This stand will be managed for a mix of aspen/balm and lowland hardwoods. Specs:

Other_

Comments:

Next Steps:

Proposed

10/01/2013 Start Date:

Table 3 -- Treatments Prescribed Compartment: 058 Escanaba Mgt. Unit Year of Entry 2014 with No Limiting Factor s t а **Treatment** Acres CoverType Size Stand BA **Treatment Treatment Cover Type Approval** n Range Name Density Method Objective Status Age Type d NF 33058008-6.1 3105 - Mixed Non-Forest Other - Specify 3102 - Grass Cmpt. Review NonFor Upland Herbaceous Management Proposal **Prescription** Specs: <u>Other</u> Comments: <u>Next</u> Steps: <u>Proposed</u> Start Date: Unspecified NF 33058028-31.5 3102 - Grass Non-Forest Other - Specify 99999 -Cmpt. Review Multiple/Other NonFor Management Proposal Specify in Comments Prescription Maintain and enhance wildlife value of opening through cutting, mowing, tilling, herbaceous plantings, fertilizing, use of herbicide. Specs: Perpetuate and enhance any existing mast resource through trimming and fertilizing existing trees as well as possibly establishing new apple/crabapple and or oak trees.

<u>Other</u>

Comments:

<u>Next</u> Steps:

Proposed

Start Date: Unspecified

Total Treatment

Acreage Proposed: 233.7

Escanaba Mgt. Unit Table 4 -- Treatments Prescribed with Compartment: 058 a Limiting Factor s Year of Entry 2014 t а **Treatment** Acres CoverType Size Stand BA **Treatment Treatment Cover Type Approval** n Method Status Name Density Objective Age Range Type d 33058002-Cut 40.3 6132 - Mixed Harvest Clearcut with 6139 - Mixed Cmpt. Review High 86 Lowland Forest with Lowland Forest Density Reserves Proposal Cedar Pole Prescription Clearcut with reserves, cut all species except retain approximately 1 to 1.5 acres of clumped cedar retention. This can be left in small clumps or larger patches. Also leave spruce seed trees. The heaviest cedar densities are in the southern portion of the stand so this is where the cedar Specs: will be retained. Maintain a 100' buffer along the creek on the south end of the stand. **Other** Access to this stand will have to be through private property from the north or west. Access could be a problem. Comment: <u>Next</u> Steps: <u>Proposed</u> 10/01/2013 Start Date: 2B: Unknown if access through Limiting Factor and No **Treatment Reason** adjacent landowner(s) is possible 3 33058003-Cut 11.8 6139 - Mixed High 53 Harvest Clearcut with 6139 - Mixed Cmpt. Review Lowland Forest Density Reserves Lowland Forest Proposal Pole Prescription Clearcut with reserves - retain enough spruce, ash, and cedar trees to meet the retention guidelines. Specs: **Other** This stand is a mix of lowland species. There are areas that have a higher density of cedar and other areas that are higher with tamarack. A large percentage of the cedar is poor quality, short and very small crowns. Comment:

<u>Next</u> Steps:

Proposed Start Date: 10/01/2013

<u>Limiting Factor and No</u> 2B: Unknown if access through

<u>Treatment Reason</u> adjacent landowner(s) is possible

Total Treatment

Acreage Proposed: 52.1

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

Year of Entry: 2014

Treatment Approval Status CoverType **Treatment Cover Type** Treatment Acres Size Stand BA Name Density Range Type Method Objective Age

Prescription Specs:

<u>Other</u> Comments:

<u>Next</u> Steps:

Proposed

Start Date: #Error

> **Total Treatment** Acreage Proposed:

0

S t	Escanaba Mgt. Unit			5 – Fo	orested Sta	nds Compartment: 058 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	6132 - Mixed Lowland Forest with Cedar	High Density Pole	40.3	86		Access to this stand will have to be through private property from the north or west. Access could be a problem.
3	6139 - Mixed Lowland Forest	High Density Pole	11.8	53		Access to this stand will have to be through private property from the north or west. Access could be a problem.
4	6120 - Lowland Cedar	High Density Pole	10.0	85		
6	6120 - Lowland Cedar	High Density Pole	12.2	110		
7	4130 - Aspen	Medium Density Pole	22.6	32		
9	4110 - Sugar Maple Association	High Density Log	2.9	65	111-140	
10	4134 - Aspen, Spruce/Fir	High Density Sapling	48.7	16		Stand was clearcut in 1995 on contract 017-94-01.
11	4110 - Sugar Maple Association	High Density Pole	35.1	85	51-80	Stand was thinned on contract 33-99-01.
12	4112 - Maple, Beech, Cherry Association	High Density Pole	8.8	75	81-110	
14	4130 - Aspen	High Density Pole	51.8	25		Stand was clearcut in 1987 on contract 053-84-01.
15	42380 - Non Pine Upland Conifer, Mixed Deciduous	Medium Density Pole	20.9	86		This stand was clearcut in 2000 on contract 033-99-01.
16	4130 - Aspen	High Density Log	17.2	72		This stand was on contract previously to harvest, but it was not cut due to lack of access. The balsam fir and white birch are dying out of the stand.
17	4119 - Mixed Northern Hardwoods	Medium Density Pole	10.2	65	51-80	
18	6120 - Lowland Cedar	High Density Pole	177.3	121		This stand is a mix of lowland species. There are areas that have a higher density of cedar and other areas that are higher with tamarack. A large percentage of the cedar is poor quality, short and very small crowns.
19	4112 - Maple, Beech, Cherry Association	High Density Log	24.7	65	81-110	Poor quality hardwood stand.
20	4130 - Aspen	High Density Sapling	10.3	4		Stand was clearcut in 2008 on contract 027-05-01.
<u></u> 21	4130 - Aspen	Medium Density Pole	41.6	25		

S t	Escanaba Mgt. Unit			5 – Fo	orested Star	nds	Compartment: 058 Year of Entry: 2014		
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	c	General comments:	MICHIGAN .	
23	4136 - Aspen, Mixed Conifer	High Density Log	23.2	62		This stand was on contract	027-05-01 to be cut, bu	it it never was.	
24	4130 - Aspen	High Density Pole	40.6	25		Stand was clearcut in	n 1987 on contract 050	-84-01.	
25	4130 - Aspen	High Density Sapling	43.5	4		Stand was clearcut in	n 2008 on contract 027	-05-01.	
27	4137 - Aspen, Birch	High Density Pole	7.1	43		Stand is being prepared for added to a larger sale in contri			
29	4130 - Aspen	High Density Pole	3.6	73					
30	4137 - Aspen, Birch	High Density Pole	4.6	43		Stand is being prepared for added to a larger sale in contri			
31	6115 - Lowland Ash	Medium Density Pole	22.1	86					
32	4130 - Aspen	Medium Density Pole	30.9	23		Stand was clearcut in	n 1988 on contract 046	-88-01.	

81-110

4110 - Sugar Maple Association

34

High Density Pole

4.4

70

6 - Nonforested Stands

Compartment: 058 Year of Entry: 2014



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	3302 - Low Density Conifer Trees	1.3	No	Unspecified	
5	6229 - Mixed lowland shrub	77.4	No	Unspecified	
8	3105 - Mixed Upland Herbaceous	6.1	No	Medium (NonForested)	
13	6220 - Alder/willow	8.4	No	Unspecified	
22	6220 - Alder/willow	1.9	No	Unspecified	
26	6220 - Alder/willow	110.2	No	Unspecified	SCA-Riparian Corridor floodplain of the Walton River. The Walton River flows through the southern half of the stand.
28	3102 - Grass	31.5	No	High (NonForested)	There is spotted knapweed present. The farmer to the west has in the past planted this field in the past illegally, but not recently.
33	3102 - Grass	2.8	No	Unspecified	

Compartment: 058 Year of Entry: 2014



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	
5	Unique Site - SCA	NF_33058005	77.4		
26	Unique Site - SCA	NF_33058026	110.2		

Compartment: 058
Year of Entry 2014



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 Type Description Area		Description	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 type	lived oxygen conditions that allow naturally-reproduced or oldwater fish species (e.g., slimy sculpin) to persist from pically provide these conditions due to substantial ws. Such streams are established by Director's action and ler 210.					





