Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 96
Entry Year 2015
Acreage: 755
County Delta
Management Area: Dead Horse Moraines

Revision Date: 07/12/2013

Stand Examiner: Dan McNamee

Legal Description:

T43N, R22W, SEC. 22, 27, 34, Delta County, Michigan.

Identified Planning Goals:

Management will be done on 206 acres this treatment period. A variety of silviculture techniques will be used in the management of 5 timber types. The timber types that are being managed are: Aspen, Lowland Coniferous, Lowland Deciduous, Lowland Mixed, and Northern Hardwood.

Soil and topography:

Major soil series include Carbondale, Longrie, Trenary, Cathro, Tawas and Sundell. Topography ranges from nearly level to moderately steep.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

Section 22 has NIPL to the south and east and State land to the north and west. The ownership in sections 27 and 34 is NIPL to the north and state land to the south, west, and east. Most of the land use in and around this compartment is multiple uses, with forestry, hunting, trapping and some camping.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

The Friday creek runs through section 34 and eventually empties into the Rapid River to the east.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton Limestone underlies the glacial drift. The Trenton is quarried for stone to the south, north of Rapid River. Some of this Compartment was previously leased for metallic exploration. Gravel pits are in the area and there appears to be good potential. No economic oil and gas production has been found in the UP.

Vehicle Access:

The area in section 22 has no vehicle access due to private ownership. The area in section’s 27 and 34 has a good road system via the Maki road and Friday flooding road. Most of this area can be accessed using a two wheel drive vehicle.

Survey Needs:

None.

Recreational Facilities and Opportunities:

Hunting, fishing, trapping and camping.

Fire Protection:

Fire should not be a problem in this area. However, this area does receive a lot of use from local people and some tourist. Should a fire start the timber types in this area will keep the fire small.

Additional Compartment Information:

The following reports from the Inventory are attached:

- **Total Acres by Cover Type and Age Class**
- **Cover Type by Harvest Method**
- **Proposed Treatments – No Limiting Factors**
- **Proposed Treatments – With Limiting Factors**
- **Stand Details (Forested and Nonforested)**
- **Dedicated and Proposed Special Conservation Areas**
- **Site Condition Details**

The following information is displayed, where pertinent, on the attached compartment maps:

- **Base feature information, stand boundaries, cover types, and numbers**
- **Proposed treatments**
- **Site condition boundaries**
- **Details on the road access system**

Cover Type & Treatment Map

Compartment: 096
T42N R22W
03
T43N R22W
15 22 23 26 27 34 35
County: Delta
Unit: Escanaba
YOE: 2015
Acres: 755 GIS Calculated
Examiner: Dan McNamee
Map Revised: 07/22/2013
Map Phase: Pre-Review

Stand # 23
Stocking Density
(412)0) - A7
Level 3 Level 4 OI Code
Cover Type Code

22
27
34

N

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1 6113-E6
2 6117-E6
3 4130-A3
4 6115-E6
5 4112-M6
6 4119-M6
7 310-G0
8 4130-A6
9 4130-A3
10 4110-M6
11 6120-C4
22

12 6117-E3
13 4239-MC6
14 6117-E6
15 4110-M9
16 6128-Q6
17 310-G0

18 4112-M6
19 6111-P3
20 6120-C6
21 6120-C6
22 4112-M5
23 4113-M6
24 622-L0
25 622-L0
26 6120-C6
27 623-N0
28 4110-M6
29 6120-C9
30 6120-C6
31 623-N0
32 500-Z0
33 4130-A6
34 310-G0
35 310-G0
36 622-L0
37 6120-C6
38 4130-A6
39 4110-M9
40 4130-A3
41 6117-E6
42 4110-M5
43 6120-C6
44 4110-M6
45 4134-A6
46 4130-A3
47 310-G0
48 6132-LM6
49 6132-LM9
50 4130-A3
51 4130-A3
52 4130-A6
53 4134-A6
54 6132-LM6
27
34

Legend

- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Shelter Wood (w/Reserves)
- Selection (Group, Single Tree)
- Other Treatment - See Comments

Forest Stands

Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

H 40
Forest R.1 Rd
Trails End
E Maple Ridge 37th Rd
Osier 40th Rd
Rapid River
N River Rd
S River Rd
S 15 Rd
Elm Creek

1 0.5 0 1 Miles

87°4'0"W 87°3'0"W 87°2'0"W 87°1'0"W 87°0'0"W
46°8'0"N 46°7'0"N 46°6'0"N 46°5'0"N 46°4'0"N

Stand Boundary Map

Compartment: 096
T42N R22W
03
T43N R22W
15 22 23 26 27 34 35
County: Delta
Unit: Escanaba
YOE: 2015
Acres: 755 GIS Calculated
Examiner: Dan McNamee
Map Revised: 07/22/2013
Map Phase: Pre-Review

Stand # 23
Stocking Density
(412)0) - A7
Level 3 Level 4 OI Code
Cover Type Code

22
27
34

N

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Legend

- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
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- Stand Boundaries

Forest Stands
Level 3
411 - Northern Hardwood
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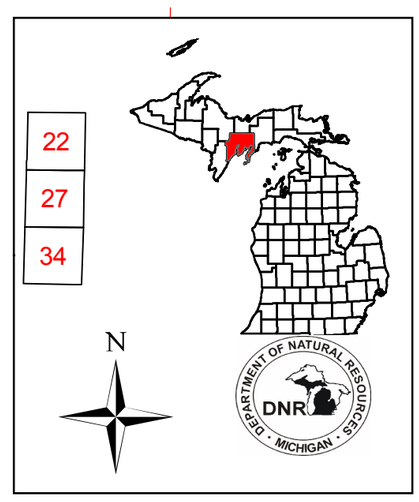
Non-Forest Stands
Level 3
310 - Herbaceous Openland
500 - Water
622 - Lowland Shrub
623 - Emergent Wetland

1 Miles

Special Conservation Areas & Site Conditions Map

Compartment: 096
T42N R22W
03
T43N R22W
15 22 23 26 27 34 35
County: Delta
Unit: Escanaba
YOE: 2015
Acres: 755 GIS Calculated
Examiner: Dan McNamee
Map Revised: 06/26/2013
Map Phase: Pre-Review

Stand # 23
Stocking Density
(412)0) - A7
Level 3 Level 4 OI Code
Cover Type Code



87°5'0"W 87°4'0"W 87°3'0"W 87°2'0"W 87°1'0"W

46°7'0"N 46°6'0"N 46°5'0"N 46°4'0"N

1 6113-E6
4 6115-E6
7 310-G0
2 6117-E6
8 4130-A6
5C - 006
3 4130-A3
6 4119-M6
5 4112-M6
9 4130-A3
10 4110-M6
11 6120-C4
22

13 4239-MC6
12 6117-E3
16 6128-Q6
5C - 007
6117-E6
15 4110-M9
17 310-G0

27

18 4112-M6
22 4112-M5
23 4113-M6
19 6111-P3
26 6120-C6
20 6120-C6
21 6120-C6
25 622-L0
24 622-L0
28 4110-M6
27 623-N0
30 6120-C6
29 6120-C9
31
32 500-Z0
36 622-L0
38 4130-A6
33 4130-A6
34 310-G0
40 4130-A3
37 6120-C6
35 310-G0
44 4110-M6
43 6120-C6
34
39 4110-M9
42 4110-M5
41 6117-E6
46 4130-A3
47 310-G0
45 4134-A6
48 6132-LM6
51 4130-A3
50 4130-A3
53 4134-A6
52 4130-A6
49 6132-LM9
54 6132-LM6

Legend
- Miris Corners
- Stand Boundaries

Site Condition Available
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)

Available Factors W/ Constraints
5C: Delay treatment for age/size class diversity or exceptional site quality

Reviewable SCAs
- Proposed SCA
- SCA Removal

1 0.5 0 1 Miles

Report 1 – Total Acres by Cover Type and Age Class

Escanaba Mgt. Unit **Compartment 096 Year of Entry 2015**

Dan McNamee : Examiner

Age Class

	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +	Uneven Age	Total
Aspen	69	62	21	59	14	0	0	0	0	0	0	0	0	0	**225**
Cedar	0	0	0	0	0	0	0	0	0	0	196	0	0	0	**196**
Herbaceous Openland	12	0	0	0	0	0	0	0	0	0	0	0	0	0	**12**
Lowland Aspen/Balsam Poplar	0	25	0	0	0	0	0	0	0	0	0	0	0	0	**25**
Lowland Conifers	0	0	0	0	0	0	0	0	0	8	0	0	0	0	**8**
Lowland Deciduous	0	11	8	0	0	0	0	20	18	0	0	0	0	0	**56**
Lowland Mixed Forest	0	0	0	0	0	0	0	28	0	0	12	0	0	0	**40**
Lowland Shrub	15	0	0	0	0	0	0	0	0	0	0	0	0	0	**15**
Marsh	22	0	0	0	0	0	0	0	0	0	0	0	0	0	**22**
Northern Hardwood	0	0	0	0	0	0	0	104	24	26	0	0	0	0	**154**
Upland Conifers	0	0	0	2	0	0	0	0	0	0	0	0	0	0	**2**
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**
Total	**119**	**98**	**28**	**61**	**14**	**0**	**0**	**151**	**42**	**33**	**208**	**0**	**0**	**0**	**755**

Report 2 – Proposed Treatment Summaries

Escanaba Mgt. Unit
Year of Entry 2015

Compartment 096
Total Compartment Acres: 755

Acres by Treatment Type

Commercial Harvest - 206	Tree Planting - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 17	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen Types	14	0	0	0	0	0	**14**
Lowland Coniferous Forest	0	23	0	0	0	0	**23**
Lowland Deciduous Forest	9	0	0	20	0	0	**29**
Lowland Mixed Forest	34	0	0	0	0	0	**34**
Northern Hardwood	0	100	0	6	0	0	**106**
Total	**57**	**123**	**0**	**26**	**0**	**0**	**206**

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	**33096001-Cut**	8.3	6113 - Lowland Maple	High Density Pole	78		Harvest	Shelterwood	4113 - R.Maple, Conifer	Cmpt. Review Proposal

Prescription Specs: Thin stand to 20 -30 BA of residual R. maple, S.maple. Leave Cedar and Hemlock if present.

Other Comments: Mix of low and high ground, Fb/Fsw in understory.

Next Steps: Conduct regen check per work instructions. Acceptable regen spp= Rm. Sm, Fb, Fs.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
4	**33096004-Cut**	11.7	6115 - Lowland Ash	High Density Pole	75		Harvest	Shelterwood	4113 - R.Maple, Conifer	Cmpt. Review Proposal

Prescription Specs: Thin stand down to 20-30 BA. Leave submerchantable ash. Leave Cedar and hemlock if present. Remove all ash that is merchantable and balsam fir leave the best quality Rm. Yb to the desired BA

Other Comments: Low ground drainage area.

Next Steps: Conduct regen check per work instructions. Acceptable regen spp= Rm, Fb, Fs. and ash.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
5	**33096005-Cut**	7.3	4112 - Maple, Beech, Cherry Association	High Density Pole	80	81-110	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal

Prescription Specs: Harvest stand to a residual BA 60 -70. Create .25 - .5 ac canaopy gaps to encourage regen of overstory spp. Leave Cedar and Hemlock if present.

Other Comments:

Next Steps: Conduct regen check per work instructions. Acceptable rege spp.= Rm, Sm, Bswd.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
6	**33096006-Cut**	29.1	4119 - Mixed Northern Hardwoods	High Density Pole	78	81-110	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal

Prescription Specs: Thin stand to residual BA 60 - 80. create .25 -.5 acre canopy gaps to release the established regen and also to get more regen established. Leave Cedar in the drainage that is located on the East edge of the stand near the private line.

Other Comments: There is a small drainage on the very SE corner of the stand.

Next Steps: Conduct regen check per work instructions. Acceptable regen spp= Sm. Rm, Bswd, Yb, and Fb.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
15	33096015-Cut	10.9	4110 - Sugar Maple Association	High Density Log	83	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal

Prescription Specs: Thin stand to residual BA 70-80. Create some canopy gaps to establish some regen of overstory spp.

Other Comments: Quite a bit of large diameter S.maple. Be sure to follow BMP's along the river (buffer).

Next Steps: Conduct regen check per work instructions. Acceptable regen = any of the overstory spp.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
21	33096021-Cut	6.8	6120 - Lowland Cedar	High Density Pole	106		Harvest	Group Selection	6120 - Lowland Cedar	Cmpt. Review Proposal

Prescription Specs: Remove short lived spp from this stand. Some cedar will have to be harvested to allow contractor to move from patch to patch, but for the most part try to avoid the heavier cedar areas.

Other Comments:

Next Steps: Conduct regen check per work instructions, Acceptable regen spp = Rm, Wb, ash, Fb and Fs.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
22	33096022-Cut	9.5	4112 - Maple, Beech, Cherry Association	Medium Density Pole	78	81-110	Harvest	Group Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal

Prescription Specs: Thin stand to residual BA of 60 - 80. Create sone .25 - .5 ac gaps to establish regen of the overstory spp. Leave Cedar and hemlock if present.

Other Comments: Access will have to be from the east. will have to cross the drainage btwn the this stand and the stand that we will treat to east.

Next Steps: Conduct regen check per work instructions. Acceptable regen spp= Sm, Rm, Yb.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
23	33096023-Cut	5.7	4113 - R.Maple, Conifer	High Density Pole	75	81-110	Harvest	Shelterwood	4113 - R.Maple, Conifer	Cmpt. Review Proposal

Prescription Specs: Remove all Fb and Fs. Mark the hardwood to release the best crop trees, residual BA = 50 - 60. Leave the cedar and hemlock

Other Comments: Access will be from the east. Gravel pit just east of the stand.

Next Steps: Conduct regen check per work instructions. Acceptabl regen spp= Rm, Yb, Wb, Fb, Fs.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
28	33096028-Cut	37.4	4110 - Sugar Maple Association	High Density Pole	78	51-80	Harvest	Group Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal

Prescription Specs: Thin stand to a residual BA 60-80. Create canopy gaps to encourage the present regen to move further into the canopy. Leave Cedar and hemlock if present.

Other Comments: Nice hardwood regen. Area that was SCA will be included in this stand.

Next Steps: Continue to monitor the regen success. thin stand as appropriate to keep recruiting the established regen into the canopy.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
30	33096030-Cut	16.0	6120 - Lowland Cedar	High Density Pole	106		Harvest	Group Selection	6132 - Mixed Lowland Forest with Cedar	Cmpt. Review Proposal

Prescription Specs: Remove the short lived spp. in the areas where it is heavy. Cedar will have to be cut to remove these spp and allow contractor to move around. Try to stay out of areas where cedat is heavy and and leave these areas as they are.

Other Comments: There are pockets where cedar is heavy and areas where it heavy to short lived spp.

Next Steps: Conduct regen check per work instructions. Acceptable regen spp = P, Wb, Rm, Yb, Fb, Fs, ash and C.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
41	33096041-Cut	9.2	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	80		Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal

Prescription Specs: remove all merchantable ash, Fb, Fs. Leave 10 -20 BA mix of Rm, Wb. Leave Cedar.

Other Comments: Almost a pure stand of Ash with some C, Fs, Fb. There is a heavy understory of Tag alder.

Next Steps: Conduct regen check per work instructions. Acceptable regen spp= Rm, Wb, ash, Fb, Fs, and P.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
44	33096044-Cut	5.7	4110 - Sugar Maple Association	High Density Pole	80	81-110	Harvest	Group Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal

Prescription Specs: Thin stand to residual BA of 60 - 80. Create some .25 - .5 ac canopy gaps to establish regen. Leave Cedar and Hemlock if present.

Other Comments: Treat this stand when stand to the east in compartment 95 is treated.

Next Steps: Conduct regen check per work instructions. Acceptable regen spp= Sm, Bswd, Rm, Fb, and other associated Northern hdwd. spp.

Proposed Start Date: 10/01/2018

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
45	33096045-Cut	14.0	4134 - Aspen, Spruce/Fir	High Density Pole	45		Harvest	Clearcut with Reserves	4136 - Aspen, Mixed Conifer	Cmpt. Review Proposal

Prescription Specs: Clearcut- leave Sp/fir along opening edge. protect apple trees within the stand and in opening.

Other Comments:

Next Steps: Conduct regen check per work instructions. Acceptable regen spp= A, P, Fb, Fs, Rm, Wb, Cherry.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
48	33096048-Cut	27.5	6132 - Mixed Lowland Forest with Cedar	High Density Pole	76		Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal

Prescription Specs: Clear cut leaving 20 - 30 BA of mix spp (primarily Rm). Also, leave the cedar where possible.

Other Comments:

Next Steps: Conduct regen check per work instructions. Acceptable regen spp= P, Fb, Rm, Wb, Fs, Yb and C.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
49	33096049-Cut	6.6	6132 - Mixed Lowland Forest with Cedar	High Density Log	102		Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal

Prescription Specs: Clearcut leaving a retention area where the cedar volume is the heaviest and cutting the rest. Small island of hardwood included in this stand- treat by removing timber to a residual BA of 20 - 30, favoring the S. maple.

Other Comments: Stand is a mix of upland and lowland. there is a small island of hardwood.

Next Steps: Conduct regen check per work instructions. Acceptable regen spp= Rm, Yb, Wb, Fb, Fs, P.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
7	NF_33096007-NonFor	1.7	31022 - Warm Season Grass				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal

Prescription Specs: Enhance and perpetuate openings. Cut brush and trees, mow, till, plant, and/or fertilize. Burn and/or herbicide if need and funding present. Hard or soft mast plants, shrubs, and trees may be planted if available. Herbaceous plantings will be focused on early and late forage and recreational opportunities.

Other Comments:

Next Steps:

Proposed Start Date: Unspecified

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
17	NF_33096017-NonFor	1.6	31022 - Warm Season Grass				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal

Prescription Specs: Enhance and perpetuate openings. Cut brush and trees, mow, till, plant, and/or fertilize. Burn and/or herbicide if need and funding present. Hard or soft mast plants, shrubs, and trees may be planted if available. Herbaceous plantings will be focused on early and late forage and recreational opportunities.

Other Comments:

Next Steps:

Proposed Start Date: Unspecified

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
24	NF_33096024-NonFor	1.3	6220 - Alder/willow				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal

Prescription Specs: Enhance and perpetuate openings. Cut brush and trees, mow, till, plant, and/or fertilize. Burn and/or herbicide if need and funding present. Hard or soft mast plants, shrubs, and trees may be planted if available. Herbaceous plantings will be focused on early and late forage and recreational opportunities.

Other Comments:

Next Steps:

Proposed Start Date: Unspecified

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
27	NF_33096027-NonFor	4.0	6233 - Wet Meadow				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal

Prescription Specs: Enhance and perpetuate openings. Cut brush and trees, mow, till, plant, and/or fertilize. Burn and/or herbicide if need and funding present. Hard or soft mast plants, shrubs, and trees may be planted if available. Herbaceous plantings will be focused on early and late forage and recreational opportunities.

Other Comments:

Next Steps:

Proposed Start Date: Unspecified

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
34	NF_33096034-NonFor	1.0	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal

Prescription Specs: Enhance and perpetuate openings. Cut brush and trees, mow, till, plant, and/or fertilize. Burn and/or herbicide if need and funding present. Hard or soft mast plants, shrubs, and trees may be planted if available. Herbaceous plantings will be focused on early and late forage and recreational opportunities.

Other Comments:

Next Steps:

Proposed Start Date: Unspecified

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
35	NF_33096035-NonFor	4.2	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal

Prescription Specs: Enhance and perpetuate openings. Cut brush and trees, mow, till, plant, and/or fertilize. Burn and/or herbicide if need and funding present. Hard or soft mast plants, shrubs, and trees may be planted if available. Herbaceous plantings will be focused on early and late forage and recreational opportunities.

Other Comments:

Next Steps:

Proposed Start Date: Unspecified

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
47	NF_33096047-NonFor	3.1	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal

Prescription Specs: Enhance and perpetuate openings. Cut brush and trees, mow, till, plant, and/or fertilize. Burn and/or herbicide if need and funding present. Hard or soft mast plants, shrubs, and trees may be planted if available. Herbaceous plantings will be focused on early and late forage and recreational opportunities.

Other Comments:

Next Steps:

Proposed Start Date: Unspecified

Total Treatment Acreage Proposed: 222.6

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

Prescription Specs:

Other Comment:

Next Steps:

Proposed Start Date: #Type!

Limiting Factor

Total Treatment Acreage Proposed: **0**

Report 5 – Site Conditions

Escanaba Mgt. Unit | **Compartment 096**

Dan McNamee : Examiner | **Year of Entry 2015**

Availability for Management

Total Acres	Acres Available	Acres Not Available		Dominant Site Conditions No	5C
225	225		**Aspen**	225	
196	196		**Cedar**	196	
25	25		**Lowland Aspen/Balsam Poplar**	25	
8	8		**Lowland Conifers**		8
56	56		**Lowland Deciduous**	48	8
40	40		**Lowland Mixed Forest**	40	
154	154		**Northern Hardwood**	154	
2	2		**Upland Conifers**	2	
704	704		Total Forested Acres	689	16
	100%		Relative Percent		

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond	Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
006		**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	8				
Comments:								
007		**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	8				
Comments: Stand was treated in 1999. Balm, balsam fir and spruce are regenerating. Residual timber is cedar and scattered balsam fir and spruce. Stand will not need treatment for another 20 - 30 years.								

Report 6 – 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.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
SCA#3	Potential Old Growth		**SCA Removal**	1.4
Comments	OLD GROWTH POTENTIAL.			
SCA removal #2	Potential Old Growth		**SCA Removal**	3.1
Comments	NICE HARDWOOD, SOUTH OF RIVER, WAS PUT INTO OLD GROWTH LAST TIME AROUND.			
SCA removal #1	Potential Old Growth		**SCA Removal**	4.2
Comments	NICE HARDWOOD, SOUTH OF RIVER, WAS PUT INTO OLD GROWTH LAST TIME AROUND.			
SCA#5	Potential Old Growth		**SCA Removal**	10.1
Comments	OLD GROWTH			
SCA#4	Potential Old Growth		**SCA Removal**	39.7
Comments				

Report 7 – 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.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6113 - Lowland Maple	High Density Pole	8.3	78		
2	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	8.9	80		Drainage area, small diameter timber.
3	4130 - Aspen	High Density Sapling	6.6	15		
4	6115 - Lowland Ash	High Density Pole	11.7	75		
5	4112 - Maple, Beech, Cherry Association	High Density Pole	7.3	80	81-110	
6	4119 - Mixed Northern Hardwoods	High Density Pole	29.1	78	81-110	
8	4130 - Aspen	High Density Pole	5.0	20		
9	4130 - Aspen	High Density Sapling	2.2	15		
10	4110 - Sugar Maple Association	High Density Pole	7.4	78	81-110	
11	6120 - Lowland Cedar	Low Density Pole	30.3	108		Scattered pockets of cedar. Regeneration is a mix of P, ash, R maple, balsam and spruce. Northeast corner has a 2 -3 acre patch of cedar,
12	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	10.6	14		Scattered cedar left, regen is balm and black ash.
13	42390 - Mixed Non-Pine Upland Conifers	High Density Pole	2.5	30		
14	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	7.5	29		
15	4110 - Sugar Maple Association	High Density Log	10.9	83	111-140	
16	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	7.6	98		This stand was cut under contract 14-95-01, cut in 1999.
18	4112 - Maple, Beech, Cherry Association	High Density Pole	9.2	75	51-80	Treated in 1998.
19	6111 - Lowland Balsam Poplar	High Density Sapling	24.6	15		Good regen of P, ash. R.maple with some yb, wb. East side more ash than P, west side more P than other spp. Cedar is heavy in some areas and light in others.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	6120 - Lowland Cedar	High Density Pole	47.7	106		
21	6120 - Lowland Cedar	High Density Pole	6.8	106		
22	4112 - Maple, Beech, Cherry Association	Medium Density Pole	9.5	78	81-110	
23	4113 - R.Maple, Conifer	High Density Pole	5.7	75	81-110	
26	6120 - Lowland Cedar	High Density Pole	24.8	106		
28	4110 - Sugar Maple Association	High Density Pole	37.4	78	51-80	
29	6120 - Lowland Cedar	High Density Log	15.6	109		East side of stand is more L0 type Probably will be ready to treat next treatment period.
30	6120 - Lowland Cedar	High Density Pole	16.0	106		
33	4130 - Aspen	High Density Pole	5.7	29		
37	6120 - Lowland Cedar	High Density Pole	15.3	106		
38	4130 - Aspen	High Density Pole	11.9	30		West side of road has small 2-3 acre patch of mature timber that should be cut now that the east side is fully stocked, this was left as a buffer to the Friday flooding. Rest of stand is A3-A4. Small part of stand was cut in 2010 and is regenerating nicely.
39	4110 - Sugar Maple Association	High Density Log	25.9	95	81-110	Treated in 2009, Stinky Pig Sale.
40	4130 - Aspen	High Density Sapling	62.7	3		
41	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	9.2	80		
42	4110 - Sugar Maple Association	Medium Density Pole	5.7	78	51-80	Cut in 2009. Friday Flooding Sale.
43	6120 - Lowland Cedar	High Density Pole	39.9	106		Small patch NW corner just south of road is high ground which contains A, Wb, Fb, Fs. Lost most of the Fb, Fs. Only about an acre. not worth cutting. As you move to SW it gets heavy to cedar with dead balm. As you move to the east it's C, tag alder, and ash becomes more of a component.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44	4110 - Sugar Maple Association	High Density Pole	5.7	80	81-110	
45	4134 - Aspen, Spruce/Fir	High Density Pole	14.0	45		
46	4130 - Aspen	High Density Sapling	12.3	16		Treated in 1997, Big T Aspen.
48	6132 - Mixed Lowland Forest with Cedar	High Density Pole	27.5	76		
49	6132 - Mixed Lowland Forest with Cedar	High Density Log	6.6	102		
50	4130 - Aspen	High Density Sapling	5.9	3		Treated in 2010, Friday Flooding Sale.
51	4130 - Aspen	High Density Sapling	41.3	16		Treated in 1997.
52	4130 - Aspen	High Density Pole	10.0	23		treated in 1990. Some residual maple was left scattered throughout stand.
53	4134 - Aspen, Spruce/Fir	High Density Pole	47.0	32		
54	6132 - Mixed Lowland Forest with Cedar	High Density Pole	5.4	105		Ash drainage, wet ground.

Report 9 – Nonforested Stands

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
7	31022 - Warm Season Grass	1.7	N\A	Unspecified	
17	31022 - Warm Season Grass	1.6	N\A	Unspecified	
24	6220 - Alder/willow	1.3	N\A	Unspecified	
25	6220 - Alder/willow	3.1	N\A	Unspecified	
27	6233 - Wet Meadow	4.0	N\A	Unspecified	
31	6233 - Wet Meadow	18.0	N\A	Unspecified	
32	50 - Water	2.0	N\A	Unspecified	
34	310 - Herbaceous Openland	1.0	N\A	Unspecified	
35	310 - Herbaceous Openland	4.2	N\A	Unspecified	
36	6220 - Alder/willow	10.4	N\A	Unspecified	
47	310 - Herbaceous Openland	3.1	N\A	Unspecified	

Data updated before 2:00 PM