

CADILLAC FOREST MANAGEMENT UNIT

COMPARTMENT REVIEW PRESENTATION COMPARTMENT # 032 ENTRY YEAR: 2014

County: Osceola

Revision Date: 10/08/2012 11:58 AM

Stand Examiner: Michael Lesinski, Forester

Legal Description: T18N, R08W, Sections 5, 6.

Management Goals: Mixed Use.

Soil and Topography: Compartment soils are a predominately Chelsea, Rubicon, and McBride sand and

sandy loam association. In general, the topography is rolling hills.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The compartment ownership is contiguous and 100% State owned. Private (mainly recreational) ownership adjoins to the east and northeast of the compartment.

Unique, Natural Features (include only non-site specific and non-sensitive information): This compartment has some potential for nesting habitat for the Red Shouldered Hawk and the Goshawk.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): There are no known significant historical features in this compartment.

Special Management Designations or Considerations: Continue to manage this compartment towards mixed age class and diversity.

Watershed and Fisheries Considerations: These two sections contain no surface waters so Fisheries Division has no specific recommendations on this compartment.

Wildlife Habitat Considerations: Primary wildlife interests are in maintaining the aspen and northern hardwood types, regenerating red oak, and establishing age class diversity in the aspen. Smaller treatment areas, following the existing terrain is preferred to avoid regeneration problems because of frost problems in the very hilly topography. Regeneration of the oak component within the aspen and northern hardwood types are a concern. Red maple and cherry generally regenerate in thinned stands. In some large cut-over areas from earlier treatments, no mast producing oaks or beech were left. Featured species guidance will be considered for pileated woodpecker, ruffed grouse, and white-tailed deer. (E. Victory 9/2012)

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments in this compartment consist of an end moraine of coarse-textured till. The glacial drift thickness varies between 600 and 1,000 feet. Beneath the glacial drift are the Jurassic Red Beds and the Pennsylvanian Grand River and Saginaw Formations. The Saginaw is quarried for clay/shale in other parts of the State. The nearest gravel pit is three miles to the south and gravel potential is considered to be good. The compartment lies three miles north of Evart Field. The field has produced over 3.8 million BO from the Devonian Dundee Limestone and

over 5 Bcf gas from the Stray sandstone. All State land is currently leased for oil and gas development and also for potash exploration.

Vehicle Access: A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR. Also indicated are forest roads and trails under the jurisdiction of the DNR that are proposed for abandonment. These roads were determined to be in excess of the access needs in the area, are a threat to the resources, or are a concern environmentally.

Survey Needs: None known at this time.

Recreational Facilities and Opportunities: The Evart motorcycle trail runs through the center of section 6. This 40" wide trail has a Directors Order which designates use for travel by 2 wheeled ORV's only. Timber management, and subsequent harvesting practices impacting this trail should include trail protection specifications that will enable the trail to remain narrow, and tight to uphold the intent of the Directors Order. This isolated block of state land receives heavy hunting and has many dispersed camping sites throughout the compartment. (T.M.N. 8-28-12)

Fire Protection: The rolling terrain and hardwood forest of this compartment may hinder some resources from accessing a wildfire. Several forest roads and old logging trails can be found in the compartment. Normal dispersed camping and the cycle trail will both be a concern during a wildfire or prescribed burn. Water access is very limited (BET 8-1-12).

Additional Compartment Information:

The following 9 Inventory reports from are attached:

- ◆ Table 1 Cover Type by Age Class
- ♦ Table 2 Treatment Type Summary
- ◆ Table 3 Treatments with No Limiting Factors
- ◆ Table 4 Treatments with Limiting Factors
- ◆ Table 5 Out of YOE Treatments (when applicable)
- ♦ Tables 6 & 7- Forested and Nonforested stands
- ◆ Tables 8 & 9 Proposed and Dedicated Special Conservation Areas

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

- ♦ Base feature information, stand numbers, cover types
- ♦ Proposed treatments
- ♦ Suggested potential and current SCA's

Table 1 – Total Acres by Cover Type and Age Class

Compartment 032 Year of Entry 2014

Cadillac Mgt. Unit Michael Lesinski : Examiner



Age Class																
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Aspen	53	128	86	117	277	0	0	0	0	0	0	0	0	0	660	
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Low-Density Trees	22	0	0	0	0	0	0	0	0	0	0	0	0	0	22	
Marsh	11	0	0	0	0	0	0	0	0	0	0	0	0	0	11	
Mixed Upland Deciduous	0	48	0	0	0	0	82	0	0	0	0	0	0	0	130	
Northern Hardwood	21	32	0	0	0	0	0	0	0	0	0	0	0	0	54	
Oak	0	0	0	0	126	46	0	0	171	0	0	0	0	0	344	
Total	109	209	86	117	403	46	82	0	171	0	0	0	0	0	1224	



Table 2 – Proposed Treatment Summaries

Cadillac Mgt. Unit

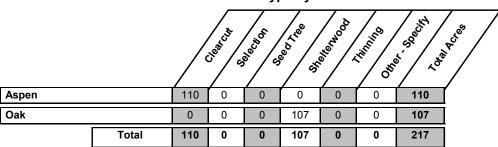
Compartment 032 Year of Entry 2014 **Total Compartment Acres: 1224**

Acres by Treatment Type

Commercial Harvest - 217 Site Prep - 0 Tree Planting - 0 Prescribed Burn - 0 Other - 0

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





Cadillac Mgt. Unit

Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 032 Year of Entry 201

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a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	63032002-Cut	26.6	4123 - Red Oak	High Density Log	81	81-110	Harvest	Shelterwood	4199 - Other Mixed Upland Deciduous	Cmpt. Review Proposal

Specs:

S

Prescription Treat area east of two track that splits stand. Reduce stand BA to 30 to 40 square feet, leaving a mix of red and white oak. Leave some scattered beech for wildlife (unless showing signs of BBD).

Retention: Unharvested stand acreage. Alternate acceptable regeneration: Mixed upland deciduous.

Other_

Consider creating VMS spec to leave high maple stumps to reduce stump sprouting. Re-close two track north of NF opening post timber sale.

Comments:

Periodic post harvest RX burns to reduce red maple competition.

Next Steps:

Proposed

10/01/2013 Start Date:

63032003-Cut 3 39.3 4123 - Red Oak High 86 141-170 Harvest Shelter Wood 4199 - Other Mixed Cmpt. Review Density Log with Reserves **Upland Deciduous** Proposal

Prescription Reduce stand BA to 30 to 40 square feet, leaving a mix of red and white oak. Expand aspen clones where applicable. Leave some scattered Specs: beech for wildlife (unless showing signs of BBD).

Retention: Residual stand BA. Acceptable alternate regeneration: Upland mixed deciduous.

<u>Other</u>

Consider creating VMS spec to leave high red maple stumps to reduce stump sprouting. Protect (green ring) some trees along the motorcycle

Comments: trail to ensure trail placement and integrity. Limit the amount of skidder crossings on the trail to protect the trail bed.

<u>Next</u> Steps: Periodic post harvest RX burns to reduce red maple competition.

Proposed

10/01/2013 Start Date:

63032005-Cut 41 0 4124 - Red with High 86 111-140 Harvest Shelter Wood 4199 - Other Mixed Cmpt. Review White Oak with Reserves **Upland Deciduous Density Log** Proposal

Specs:

Prescription Reduce stand BA to 30 to 40 square feet, leaving a red and white oak mix. Leave some scattered beech for wildlife (unless showing signs of BBD). Clearcut aspen along edges of stand (in particular near Sunrise Lake Rd.).

Retention: Residual stand BA. Alternate acceptable regeneration: Mixed upland deciduous.

Consider creating VMS spec to leave high stumps on maple, hopefully reducing stump sprouting. Harvest acreage may differ from treatment <u>Other</u>

acreage due to variable density along edges of stand. Comments:

Next Steps: Evaluate for post harvest RX burn to reduce red maple competition.

Proposed

Start Date: 10/01/2013

16 63032016-Cut 109 9 High 42 171-200 Clearcut with 4130 - Aspen Cmpt. Review 4130 - Aspen Harvest Density Reserves Proposal Pole

Prescription Final harvest area north of two track that splits stand. Leave some scattered oak and beech (unless showing signs of BBD) where applicable.

Apply grouse specifications through timber sale specs. Specs:

Retention: Unharvested acreage & scattered oak and beech.

Other_

Comments:

Harvest acreage may differ from treatment acreage due to topography and stem density.

Steps: **Proposed**

Next

10/01/2013 Start Date:

Total Treatment

216.8 Acreage Proposed:

Cadillac Mgt. Unit Table 4 -- Treatments Prescribed with a Limiting Factor

Stand

Age

BA

Range

Treatment

Type

Treatment

Method

Size

Density

Compartment: 032 Year of Entry 2014

Cover Type

Objective

DNR MICHIGAN Approval

Status

#Error

CoverType

Prescription

Specs:

s

n

d

Other Comment:

Next Steps:

Proposed Start Date: #Error

<u>Limiting Factor and No</u> <u>Treatment Reason</u>

Treatment

Name

Acres

Total Treatment Acreage Proposed:

0

Out of YOE -- Treatments Prescribed with No Limiting Factor

Year of Entry: 2014

Treatment	Acres	CoverType	Size	Stand	ВА	Treatment	Treatment	Cover Type	Approval
Name			Density	Age	Range	Туре	Method	Objective	Status
	5.2	Unspecified				Harvest	Unspecified	Unspecified	Cmpt. Review Proposal - Incomplete
Prescription Specs:									
Other Comments:									
Next Steps:									
Proposed Start Date:									
	3.5	Unspecified				Harvest	Unspecified	Unspecified	Cmpt. Review Proposal - Incomplete
Prescription Specs:									·
Other Comments:									
Next Steps:									
Proposed Start Date:									
	0.1	Unspecified				Harvest	Unspecified	Unspecified	Cmpt. Review Proposal - Incomplete
Prescription Specs:									
Other Comments:									
Next Steps:									
Proposed Start Date:									
	0.0	Unspecified				Harvest	Unspecified	Unspecified	Cmpt. Review Proposal - Incomplete
Prescription Specs:									r
Other Comments:									
Next Steps:									
Proposed Start Date:									

Out of YOE -- Treatments Prescribed with No Limiting Factor

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Year of Entry: 2014

Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
63086083-Cut	10.2	4123 - Red Oak	High Density Log	80		Harvest	Shelter Wood with Reserves	4124 - Red with White Oak	Cmpt. Review Proposal

Prescription Mark red and white oak in groups reducing basal area down to an average of 30 sq.ft.(range from 20-50).

Specs:

Next Steps:

Other This is a natural continuation of stand 1 in Comp 79 (also prescribed).

Comments:

Follow harvest with roller chopping of red maple in gaps from previous harvest. Goal is to decrease red maple and cause enough scarification with harvest to create a seedbed for adjacent pine to seed in, as well as oak. Stump sprout oak is not expected, but would be welcome. Regen

survey per work instructions.

Proposed

Start Date: 10/01/2013

Total Treatment

Acreage Proposed: 19.0

S t	Gauma	c mgt. omt				Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4131 - Aspen, Oak	Medium Density	42.7	11		Some mixed patches of larger diameter trees.
2	4123 - Red Oak	High Density Log	57.5	81	81-110	Previously thinned oak stand. Some areas are open, others have heavy red maple understory.
3	4123 - Red Oak	High Density Log	39.3	86	141-170	Single track trail in portion of stand.
4	4130 - Aspen	High Density Pole	34.0	28	141-170	Not ready for commercial harvest.
5	4124 - Red with White Oak	High Density Log	42.4	86	111-140	Higher quality red oak. Clones of aspen through stand.
7	4130 - Aspen	Low Density Sapling	33.9	3		Some scattered seed tree oak.
8	4130 - Aspen	High Density Pole	51.9	28	81-110	Not ready for commercial harvest.
10	4139 - Aspen, Mixed Deciduous	High Density Sapling	14.6	13		
12	4130 - Aspen	High Density Sapling	19.2	15		
14	4130 - Aspen	High Density Sapling	19.5	16		
15	4130 - Aspen	High Density Pole	73.6	37	81-110	Not ready for commercial harvest.
16	4130 - Aspen	High Density Pole	251.1	42	171-200	Stand can be commercially harvested.
18	4119 - Mixed Northern Hardwoods	Medium Density	32.5	13		Previous seedtree /shelterwood (1999). Around 20 BA scattered overstory oak.
19	4199 - Other Mixed Upland Deciduous	High Density Sapling	48.5	12		
21	4130 - Aspen	High Density Pole	25.7	43	111-140	Hold 10 years for age class diversity.
22	4130 - Aspen	High Density Pole	31.8	19	51-80	Not ready for commercial harvest.
23	4130 - Aspen	Medium Density	10.9	4		4 year old aspen regen.
24	4126 - White, Black, N. Pin Oak	Low Density Log	24.0	83	1-50	Shelterwood harvest last YOE.

5 - Forested Stands

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S t		. G				Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
25	4119 - Mixed Northern Hardwoods	High Density Sapling	21.1	7		Seedtree last YOE. X-Log scattered oak.
26	4130 - Aspen	High Density Sapling	7.7	6		
27	4123 - Red Oak	Medium Density Log	8.0	83		Stand thinned 4 years ago. Not ready for another thinning.
28	4130 - Aspen	High Density Pole	43.9	33	81-110	Not ready for commercial harvest.
29	4123 - Red Oak	Medium Density Log	126.4	43	1-50	Shelterwood harvest 2001. Regen heavy to red maple.
30	4199 - Other Mixed Upland Deciduous	Low Density Pole	82.0	66	1-50	Previous shelterwood 10 year old regen. Stand variable in density and composition.
31	4123 - Red Oak	Low Density Pole	46.1	53	1-50	Shelterwood harvest approximately 2 years ago.

5 - Forested Stands

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6 - Nonforested Stands

Compartment: 032 Year of Entry: 2014



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
6	3105 - Mixed Upland Herbaceous	1.7	No	Unspecified	Some scattered low density cherry. Mainly sedge and sweet fern.
9	6239 - Mixed Emergent Wetland	3.6	No	Unspecified	
11	3301 - Low Density Deciduous Tree	1.1	No	Unspecified	
13	3301 - Low Density Deciduous Tree	4.3	No	Unspecified	
17	3301 - Low Density Deciduous Tree	17.1	No	Unspecified	Low density trees with some sweetfern and sedge.
20	6230 - Cattail	7.8	No	Unspecified	

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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

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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.

ERA = Ecological Reference Area HCVA = High Conservation Value Area Conservation **Description Type** SCA = Special Conservation Area Area

