

CADILLAC FOREST MANAGEMENT UNIT**COMPARTMENT REVIEW PRESENTATION****COMPARTMENT # 122 ENTRY YEAR: 2009****Compartment Acreage (GIS Acres): 2063 County: Missaukee**

Revision Date: 09/28/2007 12:25 PM**Stand Examiner:** David Fisher, Forester, Manton Field Office**Legal Description:** T24N, R7W, Sec 1,2,11,12**RMU (if applicable):** 226 Key Value H/V-timber**Management Goals:** Maintain a variety of cover types and age class diversity which favor game and non-game species.**Soil and Topography:** Rubicon sand and Montcalm-Graycalm complex. Rolling terrain.**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Located in the northeastern part of Missaukee County, this compartment is bounded by Kalkaska County to the north, Vandermullen Road to the west and Johnson Road to the south.**Unique, Natural Features:** . Red-shouldered hawk has been located in compartment; also to the ne. Massasagua to the e. 3 wood turtle records to the ne.**Archeological, Historical, and Cultural Features :** Numerous old railroad grades. None listed in HAL.**Special Management Designations or Considerations:** Erosion is occurring on the pipeline road from ORV's and vehicle traffic.**Watershed and Fisheries Considerations:** There are no fisheries or watershed concerns for Compartment 122. -M. Tonello, 9/25/2007**Wildlife Habitat Considerations:** Priority wildlife species are deer and ruffed grouse. There seven compartments in this RMU. Agreements called for a decrease of 120 acres of northern hardwoods and an increase of 120 acres of red pine/white pine. Major management objectives are to try and convert some of the poorer hardwood stands to red pine and aspen and to maintain a variety of cover types and age class diversity. (L. Smith, 9/24/07)**Mineral Resource and Development Concerns and/or Restrictions:** Sections 1, 2, 11 & 12, T24N-R7W, Missaukee County;
Surface sediments consist of ice-contact outwash sand and gravel. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan Formation is quarried for gypsum in other areas of the State. Gravel pits are located in Section 13 and potential is good. The compartment includes part of the abandoned Cannon Creek Field. The field produced

gas from the Traverse Limestone and oil from the Detroit River Group. Most of Sections 1 and 12 are currently leased for oil and gas 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. Proposed new roads or roads recommended for substantial improvement are noted below:
Survey Needs: None needed.

Recreational Facilities and Opportunities: Approximately 3 miles of the North Missaukee Cycle trail passes through the north part of the compartment. A small portion of the Miss.-Kal. Snowmobile Trail runs through the north part of the compartment. Most of the compartment is of state ownership with a few scattered private inholdings. Most of the private ownership is seasonal with land use mainly for hunting.

Fire Protection: The IA for this area is from the Manton Field Office. There is some urban interface within the unit. Access would be fairly good in this compartment for equipment, however there is not a lot of natural barriers.

Additional Compartment Information:

Cover Type details, Proposed Treatments, and Stand listings are listed in the attached reports:

- ◆ **Cover Type by Age Class**
- ◆ **Proposed Treatments – No Limiting Factors**
- ◆ **Proposed Treatments – With Limiting Factors**
- ◆ **Stand Listing – Forested**
- ◆ **Stand Listing – Non Forested**
- ◆ **Special Conservation Area (SCA) Details**

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

- ◆ **Base feature information, stand numbers, cover types**
- ◆ **Proposed treatments**
- ◆ **Proposed road access system**
- ◆ **SCA – Special Conservation Areas**





Stage 1 Acres Summary By Level 3 Cover Type By Age
Compartment: 63122
Date: 9/26/2007

	0	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	>89	Uneven Age	Grand Total
Aspen Types	0	232.9	168.1	0	491.2	0	20.7	0	15.6	0	0	0	928.5
Herbaceous Openland	6.4	0	0	0	0	0	0	0	0	0	0	0	6.4
Low-Density Trees	16.7	0	0	0	0	0	0	0	0	0	0	0	16.7
Lowland Coniferous Forest	0	0	0	0	0	0	0	4.6	0	0	0	0	4.6
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	13.5	0	13.5
Natural Pines	0	0	0	0	0	0	0	81.5	0	0	0	0	81.5
Northern Hardwood	0	0	0	0	0	0	0	32.2	74.6	644.3	0	0	751.1
Oak Types	0	0	0	0	0	0	0	0	0	236.4	0	0	236.4
Upland Shrub	22.9	0	0	0	0	0	0	0	0	0	0	0	22.9
Water	1.1	0	0	0	0	0	0	0	0	0	0	0	1.1
Grand Total	47.1	232.9	168.1	0	491.2	0	20.7	118.3	90.2	880.7	13.5	0	2062.7

**PROPOSED TREATMENTS
NO LIMITING FACTORS**

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Treatment Name	Acres	Stage1 CovType	Size Density	1st Age	2nd Age	Treatment Method	Treatment Purpose	Cover Type Objective	Pg. 1
6 63122006-Cut	29.1	4130 - Aspen	6	33	0	Clearcut with Reserves	Regeneration	Aspen	
<u>Rev</u> Aspen starting to decline.									
<u>Cmnt:</u>									
<u>Rev</u> Final harvest. Do not cut oak.									
<u>Spec:</u>									
<u>Next</u>									
<u>Steps:</u>									
8 63122008-Cut	9.4	4119 - Mixed Northern Hardwoods	6	77	0	Single Tree Selection	Regeneration	Mixed Northern Hardwoods	
<u>Rev</u> Thinned 20 years ago. Stand contains some nice pockets of sugar maple regen.									
<u>Cmnt:</u>									
<u>Rev</u> Thin. Follow the guidelines from the "Compleat Marker" for marking in sawtimber. Release sugar maple regen were found.									
<u>Spec:</u>									
<u>Next</u>									
<u>Steps:</u>									
11 63122011-Cut	32.2	4116 - Mixed N. Hardwood - Aspen	6	67	0	Single Tree Selection	Intermediate Cut	Maple, Beech, Cherry Association	
<u>Rev</u> Stand contains numerous openings (smaller than one acre).									
<u>Cmnt:</u>									
<u>Rev</u> Thin. Remove all aspen. Follow the guidelines in the "Compleat Martker" for marking in pole timber. BA varies throughout stand.									
<u>Spec:</u>									
<u>Next</u>									
<u>Steps:</u>									
17 63122017-Cut	13.5	4199 - Other Mixed Upland Deciduous	9	90	0	Shelterwood	Regeneration	Other Mixed Upland Deciduous	
<u>Rev</u> Gas pipeline is located on north side of stand.									
<u>Cmnt:</u>									
<u>Rev</u> Harvest all aspen. Mark red maple, beech and oak to cut. Target BA of 50. Expected regen is red maple, aspen, beech and oak.									
<u>Spec:</u>									
<u>Next</u>									
<u>Steps:</u>									
26 63122026-Cut	15.6	4139 - Aspen, Mixed Deciduous	6	73	0	Clearcut with Reserves	Regeneration	Aspen	
<u>Rev</u> Prescribed last YOE, did not happen. Private property boarders west side of stand.									
<u>Cmnt:</u>									
<u>Rev</u> Final harvest. Do not cut oak, red pine and white pine under 6" diameter at breast height. Acceptable regen is aspen, oak and pine.									
<u>Spec:</u>									
<u>Next</u>									
<u>Steps:</u>									
35 63122035-Cut	12.2	4111 - S.Maple, Hard Mast Association	6	82	0	Single Tree Selection	Intermediate Cut	S.Maple, Hard Mast Association	
<u>Rev</u> East side of stand boarders private. Old railroad grade crosses thru stand.									
<u>Cmnt:</u>									
<u>Rev</u> Thin. Follow the "Compleat Marker" guidelines for marking in pole timber.									
<u>Spec:</u>									
<u>Next</u>									
<u>Steps:</u>									

**PROPOSED TREATMENTS
NO LIMITING FACTORS**

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Treatment Name	Acres	Stage1 CovType	Size Density	1st Age	2nd Age	Treatment Method	Treatment Purpose	Cover Type Objective	Pg. 2
41 63122041-Cut	35.2	4110 - Sugar Maple Association	6	74	0	Single Tree Selection	Intermediate Cut	Sugar Maple Association	

Rev Stand is on a hill.
Cmnt:

Rev Thin. Follow guidelines in the "Compleat Marker" for marking in poletimber.
Spec:

Next
Steps:

42 63122042-Cut	20.7	4130 - Aspen	6	52	0	Clearcut with Reserves	Regeneration	Aspen	
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Rev Stand age varies from 55-35 years old. Older clones are starting to decline. Drainage passes thru stand. Buffer. Follow BMPs
Cmnt:

Rev Final harvest. Do not cut oak. Leave retention along drainage that passes thru stand.
Spec:

Next
Steps:

52 63122052-Cut	11.5	4119 - Mixed Northern Hardwoods	6	82	0	Single Tree Selection	Intermediate Cut	Mixed Northern Hardwoods	
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Rev Proposed to thin last YOY. Did not happen.
Cmnt:

Rev Thin. Follow the "Compleat Marker" guidelines to marking in pole timber.
Spec:

Next
Steps:

56 63122056-Cut	10.1	4116 - Mixed N. Hardwood - Aspen	9	81	0	Single Tree Selection	Regeneration	Mixed N. Hardwood - Aspen	
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Rev Narrow strip along Johnson Road.
Cmnt:

Rev Thin. Follow guidelines in the "Compleate Marker" for marking in sawtimber.
Spec:

Next
Steps:

59 63122059-Cut	9.3	4116 - Mixed N. Hardwood - Aspen	9	81	0	Single Tree Selection	Regeneration	Mixed N. Hardwood - Aspen	
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Rev Road on east side of stand is on private.
Cmnt:

Rev Thin. Follow guidelines in the "Compleat Marker" for marking in sawtimber.
Spec:

Next
Steps:

**Total Treatment
Acreage Proposed: 198.9**

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Cadillac

Mgt. Unit

**PROPOSED TREATMENTS
WITH LIMITING FACTORS**

Compartment: 122

Entry Yr: 2009

Inventory Method: IFMAP

Treatment
Name

Acres

Stage1
CovType

Size
Density

1st
Age

2nd
Age

Treatment
Method

Treatment
Purpose

Cover Type
Objective

Pg. 1

Limiting Factor
and Comment:

Rev
Cmnt:

No Stands with Limiting Factors

Rev
Spec:

Next
Steps:

**Total Treatment
Acreage Proposed: 0**

Field Map

Compartment 122
 T24N, R07W, Sec. 1, 2, 11, 12
 County: Missaukee
 Unit: Cadillac
 YOE: 2009
 Acres: 2,063 GIS Calculated
 Stand Examiner: Dave Fisher
 Map Revised: 8/21/2007
 Map Phase: Pre-Review

Stand # 23
 Stacking Density (A)(412)0 - 7
 Ol Level 3
 Code Level 4
 Cover Type Code

Legend

- Miris Corners
- Paved Road
- Poor Dirt Road
- Intermittent Stream/Drain
- Stream
- Trails
- Minerals
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Stands
- Clearcut
- Clearcut with Reserves
- Single Tree Selection
- Shelterwood
- Forest Stands**
 - 411 - Northern Hardwood
 - 412 - Oak Types
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 422 - Natural Pines
 - 612 - Lowland Coniferous Forest
- Non-Forest Stands**
 - 310 - Herbaceous Openland
 - 320 - Upland Shrub
 - 330 - Low-Density Trees
 - 500 - Water

