

CADILLAC FOREST MANAGEMENT UNIT



COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 091 ENTRY YEAR: 2009

Compartment Acreage (GIS Acres): 2140 County: Missaukee

Revision Date: 09/28/2007 12:11 PM

Stand Examiner: David Fisher, Forester, Manton Field Office

Legal Description: T23N, R5W, Sec 1-4

RMU (if applicable): 224. Key Value H/V-wildlife

Management Goals: Maintain a variety of cover types and age class diversity which favor game and non-game species.

Soil and Topography: Lupton-Roscommon-Tawas sands and mucks in the eastern half of the compartment. Rubicon-Montcalm-Graycalm sands in the western half of the compartment.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The eastern part of the Compartment is designated Dead Stream Swamp Natural Landmark and is all state owned and limited in development. The western part is a mixture of state and private with a number of permanent homes. The Enterprise Oil Field is located just to the south. The Dead Stream Swamp area is a very popular area for hunters.

Unique, Natural Features (include only non-site specific and non-sensitive information): Bald eagle records within 1 mi to the e. Great blue heron rookery to the n. numerous osprey records to the se. Black tern to the se. Common moorhen to the ne. Bigmouth shiner records to the s and sw. Blanding's turtle to the e.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations: Old railroad grades through out the compartment. Near by Jennings was a thriving logging town in the early 1900's. Loons* documented within compartment on Whitlock Lake (section 30) and Sheridan Lake (section 31); loon sot e and w. Great blue heron rookery* in se 1/4 of section 6. Bald eagle to the e. Potential for great blue heron rookery, osprey, eagle, goshawk, red-shouldered hawk, massasauga, and Blanding's turtle. Potential for ebony boghaunter and secretive locust. Potential for marsh birds: common moorhen, black tern, yellow rail, American bittern, least bittern, and marsh wren.

Watershed and Fisheries Considerations: Follow BMPs along stream corridors.

Wildlife Habitat Considerations:

Priority wildlife species are deer, bear, bobcat, aquatic furbearers, waterfowl, ruffed grouse, and woodcock. There are five compartments in this RMU. Agreements called for a decrease of 185 acres of aspen and an

increase of 185 acres upland brush and grass. Major management objectives are to maintain a variety of cover types and age class diversity. The compartments in this RMU make up a large part of the Deadstream Swamp. (L. Smith, 9/24/07)

Mineral Resource and Development Concerns and/or Restrictions:

Sections 19, 20 & 29-32, T23N-R8W & Section 6, T22N-R8W, Missaukee Co
Surface sediments consist of an end moraine of coarse-textured till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift are the Mississippian Michigan Formation and Bayport Limestone and Pennsylvanian Grand River and Saginaw Formations. The Michigan is quarried for gypsum, Bayport for limestone and Saginaw for clay/shale in other parts of the State. Gravel pits are not located in the area, but potential is good. The compartment includes the one well abandoned Caldwell Traverse Limestone Field and the one well Jennings Stray Sand Field. Neither field produced much hydrocarbon. There are no State leases currently in the Compartment

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: The east side of the compartment has very few corners along the private and needs to be surveyed.

Recreational Facilities and Opportunities: Dispersed recreation including camping, hunting, and fishing are found in this compartment.

Fire Protection: Fire growth potential is low in some of this compartment unless drought conditions exist. There is some urban interface within the compartment. Access would be difficult for equipment, and any fires in some areas may require specialized equipment, or a larger crew for suppression. Also the potential for deep burning fires exist, which become very labor intensive.

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: 63091

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	161.1	194.1	114	18.5	8.6	16.7	8	36.6	0	0	8.7	566.3
Emergent Wetland	56.6	0	0	0	0	0	0	0	0	0	0	0	56.6
Herbaceous Openland	14.2	0	0	0	0	0	0	0	0	0	0	0	14.2
Lowland Coniferous Forest	0	0	0	0	20.6	0	54.8	25	68.2	0	666.9	0	835.5
Lowland Shrub	418.6	0	0	0	0	0	0	0	0	0	0	0	418.6
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	46.3	5.5	0	51.8
Natural Pines	0	0	0	0	0	1.8	22.1	3.6	18	0	0	0	45.5
Oak Types	0	0	0	0	0	0	0	0	0	94.9	31.1	0	126
Other Upland Conifers	0	0	0	0	0	0	0	0	0.9	0	0	0	0.9
Planted Pines	0	0	0	0	0	20.1	0	0	0	0	0	0	20.1
Upland Mixed Forest	0	0	0	0	0	0	0	3.4	0	0	0	0	3.4
Water	1.5	0	0	0	0	0	0	0	0	0	0	0	1.5
Grand Total	490.9	161.1	194.1	114	39.1	30.5	93.6	40	123.7	141.2	703.5	8.7	2140.4

**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
2 63091002-Cut	8.0	4130 - Aspen	3	60	0	Clearcut with Reserves	Regeneration	Aspen	

Rev
Cmnt:

Rev Final harvest. Do not cut oak or red pine. Acceptable regeneration is aspen, red maple, pine and oak.
Spec:

Next
Steps:

10 63091010-Cut	21.7	4131 - Aspen, Oak	6	70	0	Clearcut with Reserves	Regeneration	Aspen, Oak	
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Rev Need survey to check fence line on north edge of stand appears to be on state ownership.
Cmnt:

Rev Final harvest. Do not cut wp under 6" dbh and red pine. Mark oak to leave. Acceptable regeneration is aspen, red maple, white pine, red pine and oak.
Spec:

Next
Steps:

26 63091026-Cut	46.3	4199 - Other Mixed Upland Deciduous	9	83	0	Shelter Wood with Reserves	Regeneration	Aspen, Mixed Deciduous	
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Rev Part of the old Gill Oak timber sale That did not get cut. West portion of stand has more aspen than the east portion. East side of stand is a long narrow strip separating a A3 from the county road. Leave this strip for retention.
Cmnt:

Rev Harvest all aspen and poor quality red maple. Do not cut red pine. Mark to leave red maple or mark to cut red maple whichever is easier. Mark oak to cut. Leave a residual BA of 30-50. Manage for a mix of red maple, aspen, pine and oak.
Spec:

Next
Steps:

30 63091030-Cut	16.7	4130 - Aspen	6	58	0	Clearcut with Reserves	Regeneration	Aspen	
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Rev Stand has high water table on the north side. Will need to harvest during dry or frozen conditions.
Cmnt:

Rev Final harvest. Do not cut oak.
Spec:

Next
Steps:

70 63091070-Cut	9.7	4131 - Aspen, Oak	9	70	0	Clearcut with Reserves	Regeneration	Aspen, Oak	
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Rev Portion of old Gill Oak sale that did not get harvested.
Cmnt:

Rev Final harvest. Mark some oak to retain. Manage for a mix of aspen, oak and red maple.
Spec:

Next
Steps:

71 63091071-Cut	5.1	4131 - Aspen, Oak	6	70	0	Clearcut with Reserves	Regeneration	Aspen, Oak	
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Rev Part of old Gill Oak sale that did not get harvested. Some firewood theft occuring in this stand.
Cmnt:

Rev Final harvest. Mark some oak to retain. Manage for a mix of aspen, oak and red maple.
Spec:

Next
Steps:

**Total Treatment
Acreage Proposed: 107.5**

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Cadillac

Mgt. Unit

**PROPOSED TREATMENTS
WITH LIMITING FACTORS**

Compartment: 91

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

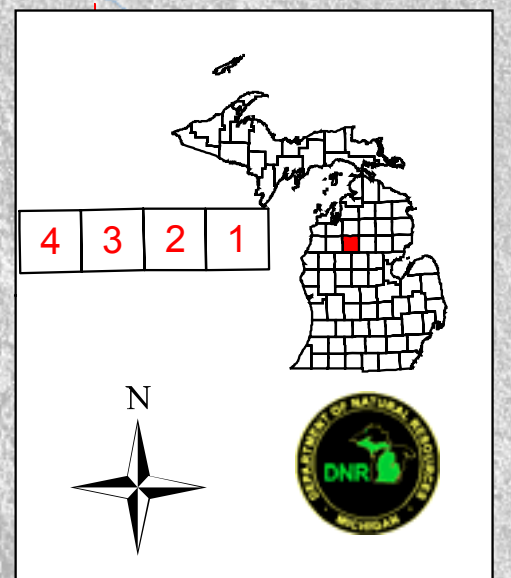
Rev
Spec:

Next
Steps:

**Total Treatment
Acreage Proposed: 0**

Compartment 91
 T23N, R05W, Sec. 1, 2, 3, 4
 County: Missaukee
 Unit: Cadillac
 YOY: 2009
 Acres: 2,140 GIS Calculated
 Stand Examiner: Dave Fisher
 Map Revised: 8/21/2007
 Map Phase: Pre-Review

Field Map



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

- Legend**
- Miris Corners
 - Paved Roads
 - - County Poor Dirt Roads
 - - Poor Dirt Roads
 - Pipelines
 - Intermittent Stream/Drain
 - Stream
 - ▭ Stands
 - ▨ Clearcut with Reserves
 - ▩ Shelterwood
- Forest Stands**
- 412 - Oak Types
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 431 - Upland Mixed Forest
 - 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- 310 - Herbaceous Openland
 - 500 - Water
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland

