

CADILLAC FOREST MANAGEMENT UNIT



COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 111 ENTRY YEAR: 2009

Compartment Acreage (GIS Acres): 2279 County: Missaukee

Revision Date: 09/28/2007 12:21 PM

Stand Examiner: Steven Eisele, Forest Technician, Manton Field Office

Legal Description: T22N, R8W, Sec 6.

RMU (if applicable): 232. Key Value Recreation.

Management Goals: Maintain a variety of cover types and integrity of lakes and wet areas.

Soil and Topography: Gray calm. Rubicon sands with some Loxley and Lupton mucks. Hilly terrain with many small ponds, lakes, marsh's and lowland areas.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Solid state ownership with private to the north, south and east. Pursue acquisition of 80 acre parcel T22N R8W Sec. 6 nesw,sesw.

Unique, Natural Features (include only non-site specific and non-sensitive information): Whitlock and Sheridan lake. Vernal ponds, bogs and marshes.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): Indicate location and type of any known historical feature within the compartment. Include any special consideration necessary to protect site. Information from Secretary of State, Department of History, Arts, and Libraries, if available.

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: To be done by Fisheries Division.

Wildlife Habitat Considerations:

Priority wildlife species are deer, ruffed grouse, and woodcock. There are three compartments in this RMU. Agreements called for no change in any habitat types. Major management objectives are 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 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 can be found within the compartment

Fire Protection: IA for this unit is from the Manton Field Office. There are urban interface areas within the compartment. Terrain & timber types would make for fairly good access for equipment.

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: 63111

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	29.7	33.1	0	19.6	243.6	209.6	36.1	0	0	0	18.2	589.9
Emergent Wetland	116.2	0	0	0	0	0	0	0	0	0	0	0	116.2
Herbaceous Openland	32.9	0	0	0	0	0	0	0	0	0	0	0	32.9
Low-Density Trees	46.7	0	0	0	0	0	0	0	0	0	0	0	46.7
Lowland Coniferous Forest	0	0	0	0	0	0	7.8	0	0	39.8	8.1	0	55.7
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	32.7	0	0	32.7
Lowland Shrub	118	0	0	0	0	0	0	0	0	0	0	0	118
Mixed Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	24.2	24.2
Mixed Upland Deciduous	0	0	11.7	0	0	52.6	57.6	23.3	41.3	133.4	57	24.2	401.1
Mixed non-forested wetland	8.5	0	0	0	0	0	0	0	0	0	0	0	8.5
Natural Pines	0	0	0	0	0	6.7	0	19.1	4.6	6.1	0	13.2	49.7
Northern Hardwood	0	0	5.7	0	0	5.8	0	19.2	28.7	0	0	0	59.4
Oak Types	0	0	0	0	0	0	0	56.7	59.3	171.1	6.1	127.2	420.4
Other Upland Conifers	0	0	0	0	0	21.7	0	7.2	8.7	60.2	0	0	97.8
Planted Pines	0	0	0	0	0	143	0	0	0	0	0	0	143
Road/Parking Lot	6.6	0	0	0	0	0	0	0	0	0	0	0	6.6
Upland Mixed Forest	0	0	0	0	0	0	7.7	0	0	0	14.3	0	22
Water	54.4	0	0	0	0	0	0	0	0	0	0	0	54.4
Grand Total	383.3	29.7	50.5	0	19.6	473.4	282.7	161.6	142.6	443.3	85.5	207	2279.2

**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
32 63111032-Cut	9.2	4131 - Aspen, Oak	6	60	0	Clearcut with Reserves	Regeneration	Aspen, Mixed Deciduous	

Rev
Cmnt: Remove all species but oak in this stand. OR do not cut in skinny area of stand at all..this area has the most young small diameter oak.

Rev
Spec:

Next
Steps:

35 63111035-Cut	30.6	4130 - Aspen	6	55	0	Clearcut with Reserves	Regeneration	Aspen, Oak	
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Rev
Cmnt: Cut portion of stand. Treat north of road. Stay away from lake and drainages. Leave some scattered oak for mast. Combination of aspen red maple and oak regen acceptable

Rev
Spec:

Next
Steps:

56 63111056-Cut	5.5	4130 - Aspen	6	50	0	Clearcut	Regeneration	Aspen	
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Rev
Cmnt: Final harvest this stand, Buffer marsh on south end where it gets wet. Stop at top of hill. That will be the retention. Mix of aspen red maple and oak acceptable.

Rev
Spec:

Next
Steps:

60 63111060-Cut	14.6	4131 - Aspen, Oak	6	60	0	Clearcut with Reserves	Regeneration	Aspen, Oak	
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Rev
Cmnt: Remove all species except leave some oak residul of varying diameters. Combination of aspen oak and red maple regen acceptable. Leave island of retention in middle.

Rev
Spec:

Next
Steps:

69 63111069-Cut	14.3	4131 - Aspen, Oak	6	50	0	Clearcut with Reserves	Regeneration	Aspen, Oak	
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Rev
Cmnt: Remove all species but leave some residual oak of varying diameters. Leave small island for retention.

Rev
Spec:

Next
Steps:

80 63111080-Cut	11.7	4123 - Red Oak	9	80	0	Shelterwood	Regeneration	Oak, Pine	
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Rev
Cmnt: Shelterwood oak. Remove as much wp and balsam understory as possible. Leave Island for retention.

Rev
Spec:

Next
Steps:

**PROPOSED TREATMENTS
NO LIMITING FACTORS**

S
t
a
n
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Treatment Name	Acres	Stage1 CovType	Size Density	1st Age	2nd Age	Treatment Method	Treatment Purpose	Cover Type Objective	Pg. 2
90 63111090-Cut	88.6	4130 - Aspen	6	50	0	Clearcut	Regeneration	Aspen	

Rev
Cmnt: Treat portions of this stand. These areas are marked on Map sheet B1. Stay away from lake. Leave east and west extremes of stand. Leave island out in lake and low wet areas. Mix of oak red maple and aspen acceptable regen

Rev
Spec:

Next
Steps:

91 63111091-Cut	49.4	4131 - Aspen, Oak	6	50	0	Clearcut with Reserves	Regeneration	Aspen, Oak	
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Rev
Cmnt: Treat only a portion of this stand, mostly the southern block. Leave the north part along the wet area, and the west edge along private. Mix of aspen red maple and oak acceptable

Rev
Spec:

Next
Steps:

92 63111092-Cut	15.3	4134 - Aspen, Spruce/Fir	6	50	0	Clearcut with Reserves	Regeneration	Aspen, Mixed Deciduous	
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Rev
Cmnt: Treat all but leave hemlock and low wet areas. Try to remove as much blasam as possible. Mix of regen species acceptable

Rev
Spec:

Next
Steps:

140 63111140-Cut	10.2	4130 - Aspen	9	68	0	Clearcut with Reserves	Regeneration	Aspen, Mixed Deciduous	
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Rev
Cmnt: Remove all species except some scattered oak. Do not cut on ridges(where most of the oak is) buffer stream on the north. Aspen oak and red maple acceptable

Rev
Spec:

Next
Steps:

143 63111143-Cut	9.5	4123 - Red Oak	9	80	0	Shelterwood	Regeneration	Red with White Oak	
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Rev
Cmnt: Mark oak to leave. Remove aspen and red maple. Stay out of wet areas on north end, leave that for retention. Mix of species acceptable for regen.

Rev
Spec:

Next
Steps:

**Total Treatment
Acreage Proposed: 259.0**

**PROPOSED TREATMENTS
WITH LIMITING FACTORS**

S t a n d	Treatment Name	Acres	Stage1 CovType	Size Density	1st Age	2nd Age	Treatment Method	Treatment Purpose	Cover Type Objective	Pg. 1
103	63111103- Other	32.7	6130 - Fir, Aspen, Maple	9	85	0	Other	Habitat Management		

Limiting Factor 3A: Potential old growth / biodiversity
and Comment:

Rev Potential Olds Growth.. No treatment
Cmnt:

Rev
Spec:

Next
Steps:

110	63111110- Other	13.2	42290 - Natural Mixed Pine	6	122	0	Other	Habitat Management		
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Limiting Factor 3A: Potential old growth / biodiversity
and Comment:

Rev Potential Old Growth. No treatment
Cmnt:

Rev
Spec:

Next
Steps:

112	63111112- Other	14.3	4319 - Mixed Upland Forest	6	90	0	Other	Habitat Management		
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Limiting Factor 3A: Potential old growth / biodiversity
and Comment:

Rev Potential Old Growth. No treatment
Cmnt:

Rev
Spec:

Next
Steps:

119	63111119- Other	13.6	4191 - Mixed Upland Deciduous with Conifer	9	122	0	Other	Habitat Management		
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Limiting Factor 3A: Potential old growth / biodiversity
and Comment:

Rev Potential Old Growth..No treatment
Cmnt:

Rev
Spec:

Next
Steps:

**PROPOSED TREATMENTS
WITH LIMITING FACTORS**

Stand	Treatment Name	Acres	Stage1 CovType	Size Density	Age		Treatment Method	Treatment Purpose	Cover Type Objective	Pg. 2
					1st	2nd				
127	63111127-Other	10.6	4191 - Mixed Upland Deciduous with Conifer	9	122	0	Other	Habitat Management		

Limiting Factor and Comment: 3A: Potential old growth / biodiversity

Rev Cmnt: Potential old growth. No treatment

Rev Spec:

Next Steps:

165	63111165-Cut	8.5	4123 - Red Oak	6	80	0	Shelterwood	Regeneration	Oak, Aspen	
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Limiting Factor and Comment: 2G: Blocked by physical obstacle

Rev Cmnt: Land owner has posted and previously cut some on this. Establish line and harvest remaining portion marking oak to leave. May have access issues....

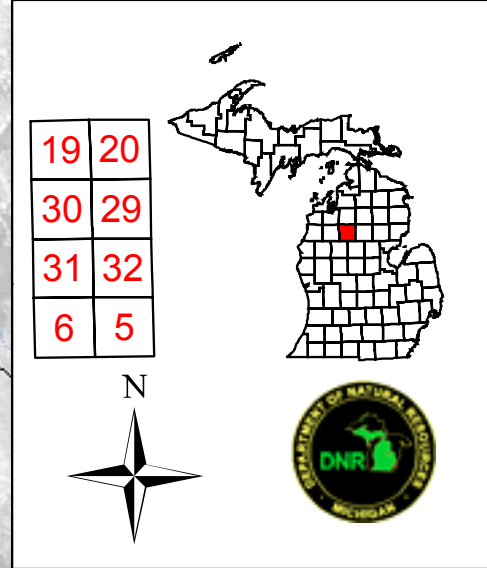
Rev Spec:

Next Steps:

**Total Treatment
Acreage Proposed: 92.9**

Field Map

Compartment 111
 T22N, R08W, Sec. 5, 6
 T23N, R08W, Sec. 19, 20, 29-32
 County: Missaukee
 Unit: Cadillac
 YOE: 2009
 Acres: 2,279 GIS Calculated
 Stand Examiner: Steve Eisele
 Map Revised: 8/22/2007
 Map Phase: Pre-Review



Legend

- Miris Corners
- Paved Road
- - - Poor Dirt Road
- Intermittent Stream/Drain
- Stream
- Stands
- ▤ SCA - Special Conservation Area
- ▨ Clearcut
- ▧ Clearcut with Reserves
- ▩ Other Harvest - See Comments
- Shelterwood

Forest Stands

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland

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

0.5 0 1 Miles

