

CADILLAC FOREST MANAGEMENT UNIT**COMPARTMENT REVIEW PRESENTATION****COMPARTMENT # 015 ENTRY YEAR: 2009****Compartment Acreage (GIS Acres): 2289 County: Lake**

Revision Date: 09/28/2007 11:29 AM**Stand Examiner: Rick-James Hill****Legal Description: T19 R12W, Sections 25, 26, 35, 36****RMU (if applicable): 304****Management Goals: Timber Intensive****Soil and Topography:** Generally rolling to hilly. The soils are Mostly Montcalm-Greycalm, and Rubicon sands.**Ownership Patterns, Development, and Land Use in and Around the Compartment:** state land around the compartment on all sides except the north where there is private ownership.**Unique, Natural Features (include only non-site specific and non-sensitive information):** Eastern box turtle* historically present in the area; extant records to w, se, and sw. Eastern massasauga located just outside compartment in ne 1/4 of section 20; additional records to n. Wood turtle to s and sw and spotted turtle to w. Blanding's turtle to sw. Bald eagle to w and sw. Common loon to n and w. Historical great blue heron rookeries to n and ne. Great plains spittlebug to s and w. Historical Karner blue record to sw.**Archeological, Historical, and Cultural Features** none known**Special Management Designations or Considerations:** Visual management techniques shall be followed where necessary with respect to the ORV trail and horse trail.**Watershed and Fisheries Considerations:****Wildlife Habitat Considerations:**

Priority wildlife species are deer, ruffed grouse, and turkey. There are six compartments in this RMU. The agreement called for a decrease of 300 acres of oak with an increase of 300 acres of upland grass and brush. The aspen acreage is to be maintained in this RMU and upland brush areas are to be created from the oak type. (L. Smith, 9/24/07)

Mineral Resource and Development Concerns and/or Restrictions: Sections 25, 26, 35 & 36, T19N-R12W, Lake Co. Surface sediments consist of an end moraine of coarse-textured till. The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift is the Mississippian Bayport Limestone and Pennsylvanian Saginaw Formation. The Bayport is quarried for limestone and the Saginaw for brick making clay in other areas of the State. A gravel pit is located in Section 27 and potential is good. The nearest oil and gas production is the one well abandoned Luther Field located two miles to the north. The Field produced over 28,000 BO from the Traverse Limestone. The compartment is not 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: none

Survey Needs: none

Recreational Facilities and Opportunities:

The Tin Cup ORV route travels through this compartment. The Tin cup motorcycle trail also uses the area. A horse trail is present through much of the compartment. The area is also used by hunters and trappers.

Fire Protection: IA for this compartment is from the Baldwin Office. This compartment has few roads, but terrain would allow for good access for equipment. There is a potential for fire growth, due to the lack of natural barriers.

Additional Compartment Information:

The following parcels are recommended for acquisition if they become available for sale:

➤ **The following 5 reports from the Operations Inventory System (OIPC) are attached:**

- ◆ **Cover Type by Age Class**
- ◆ **Cover Type by Management Objective**
- ◆ **Compartment Volume Summary**
- ◆ **Proposed Treatments – No Limiting Factors**
- ◆ **Proposed Treatments – With Limiting Factors**

➤ **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**
- ◆ **Suggested potential old growth**

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

PERE MARQUETTE STATE FOREST

CADILLAC MGT UNIT

LAKE COUNTY

COMPARTMENT: 15

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not Coded	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159	All Aged	Total
Aspen		248	38	189	570	20													1065
Grass	10																		10
Jack Pine				9															9
Mx Swmp Cnfr												8							8
Oak		20							22	416		110	41						609
Red Pine						74	44												118
Swamp Hrdwds																		20	20
Upland Brush	2			16															18
Upland Hdwds		101	42	85						15								45	288
White Pine					144														144
Total	12	369	80	299	714	94	44		22	431		118	41					65	2289

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

PERE MARQUETTE STATE FOREST

CADILLAC MGT UNIT

LAKE COUNTY

COMPARTMENT: 15

Table 3A

(acres shown in boxes)

MANAGEMENT OBJECTIVE TYPE

COVER TYPE	A	S	V	C	G	H	J	I	L	P	N	Q	X	O	B	R	K	Y	F	E	T	D	U	M	Z	W	Total	
A Aspen	1065																										1065	
G Grass					10																							10
J Jack Pine							9																					9
Q Mx Swmp Cnfr												8																8
O Oak														609														609
R Red Pine																118												118
E Swamp Hrdwds																				20								20
U Upland Brush																								18				18
M Upland Hdwds																								288				288
W White Pine																										144	144	
Total	1065				10		9					8		609		118				20				18	288		144	2289

PERE MARQUETTE STATE FOREST

CADILLAC MGT UNIT

LAKE COUNTY

COMPARTMENT: **15**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	15379 Cds	Hardwood	2353 Cds
Hardwood	2570 Mbf	Hardwood	536 Mbf
Softwood	6817 Cds	Softwood	2131 Cds
Softwood	559 Mbf	Softwood	153 Mbf
Sum TotVol	28454 Cds	Sum CutVol	5862 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	434
2289			

CADILLAC MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 15

Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
2	W6	47	35	45	white pine	immature	thinning	1	release	
comnts Fmd : Planted WP with a small amount of overstory oak in some areas. Release white pine from overtopping hardwood. Retention will be included in the white pine residual. The retention will be a mix of the species present in this stand										
4	O9	23	79	55	oak	mature	selection	1		
comnts Fmd : Starting to move to hardwoods thin oak and make some regen holes try to enhance diameter distribution. Thin to around 70 to 80 sf. M.O. of northern hardwood and oak. The retention will be a mix of the species present in this stand										
7	R6	2	46	60	red pine	immature	thinning	1		
comnts Fmd : Thin 1/3 of this stand, row or marked. Retention will be included in the 2/3rds residual as single trees. The retention will be a mix of the species present in this stand.										
11	R6	37	47	60	red pine	immature	thinning	1		
comnts Fmd : Stand should be thined by a 1/3. Some nat. Red Pine present in stand thin them as well. Row or marked thin. Retention will be included in the 2/3rds residual as single trees. The retention will be a mix of the species present in this stand.										
13	M9	32		70	northern hardwood	unevenaged	selection	1	natural regeneration	stand with fdf potential
comnts Fmd : Thinned in 1971. Quality increases as you go north. Intermittant stream present. Variety of Northern Hardwood species. This stand should be thined to 80 sf exclude the area around the intermittant stream. Retention will be included in the 80 SF as single trees. The retention will be a mix of the species present in this stand.										
15	M6	13		55	northern hardwood	immature	selection	1	natural regeneration	
comnts Fmd : Northern Hardwood species present. Potential to expand and enhance this component in future. Thin this stand for best tree in place, also cut some gaps for aspen regen, thin to 50 to 60 sf. Retention will be included in the 50 SF as single trees. The retention will be a mix of the species present in this stand										
16	R6	35	47	55	red pine	immature	thinning	1		
comnts Fmd : Thin this stand cut BA by 1/3. By thinning or marking. Retention will be included in the 2/3rds residual as single trees. The retention will be a mix of the species present in this stand.										
19	M1	30	6	60	northern hardwood	immature		0	planting	
comnts Fmd : stand treated 2001/2002 sale # 579901. A mix of M1,A1,O. regen seem to have failed with this cuts large size I believe it should be planted to red pine.										
24	O9	41	84	60	oak	immature	shelterwood-seed	1	natural regeneration	
comnts Fmd : This stand is quality oak it includes red oak and white oak as well as some NPO. Red maple and aspen was removed 10 Years ago. I would like to burn this stand to kill the red maple sprouts. I would like to then cut this stand to 40-50 SF of oak and burn the stand again to produce a good seed bed and kill acorn weavals. If oak regen is stocked well the remaining stand should be removed after ten years. Acceptable regen includes Red Oak, Northern Pin Oak, White Oak, Aspen and Red Maple. Old comments, Stand broke into 4 units with different specs. Sale treated winter/summer 2001-2002.										
31	R6	19	50	60	red pine	immature	thinning	1		
comnts Fmd : Thin 1/3 of this stand, row or marked. Retention will be included in the 2/3rds residual as single trees. The retention will be a mix of the species present in this stand.										
35	R6	25	50	60	red pine	immature	thinning	1		
comnts Fmd : Thin by 1/3 of the BA, marked or row thin. Retention will be included in the 2/3rds residual as single trees. The retention will be a mix of the species present in this stand.										
40	O9	13	87	50	oak	mature	final harvest	1	natural regeneration	
comnts Fmd : Clearcut this stand to regenerate the aspen and red maple green ring 10 sf of oak for mast. An O8, A8, O5, M4 stand. Acceptable regen includes aspen, mixed oak and red maple. Retention will be included in the 10 SF as single trees. The retention will be a mix of the species present in this stand.										
41	A9	12	37	60	aspen (upland)	immature	final harvest	1	natural regeneration	
comnts Fmd : This stand was split from stand 14 and should be harvested to help with age class distribution. Acceptable regen includes aspen and mixed hardwoods. if regen fails plant red pine. Retention will be included in the 10 SF as single trees. The retention will be a mix of the species present in this stand.										
42	W6	85	37	55	white pine	immature	thinning	2		
comnts Fmd : Good species diversity and good regeneration. Thin for best tree in place to 70 to 80 sf. Retention will be included in the 80 SF as single trees. The retention will be a mix of the species present in this stand.										

CADILLAC MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 15

Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
43	O9	21	82	60	oak	mature	shelterwood-prep	1			
comnts Fmd : Thin this stand cut the mixed hardwood the aspen and some oak. Thin to 70 sf. Retention will be included in the 70 SF as single trees. The retention will be a mix of the species present in this stand.											
48	A6	9	36	60	aspen (upland)	immature	final harvest	1	natural regeneration		
comnts Fmd : Wet and low site with intermittant stream. Cut as the aspen is becoming mature, and this intermint doesn't go VRetention will be included in the 10 SF as single trees. The retention will be a mix of the species present in this stand. acceptabanywhere. Leave some of the pine and oak under 10 sf. Acceptable regen includes aspen and mixed hardwoods. Plant to white pine if regen fails. Green ring a few trees in areas no more then 5 % of the trees may be green. These trees will be a mix of species present on the site											
111	A6	1	37	60	aspen (upland)	immature	final harvest	1	natural regeneration		
comnts Fmd : stand is located in stand 11 clearcut per wildlife's request. No residual due to sites size.											
114	A6	19	37	60	aspen (upland)	immature	final harvest	1	natural regeneration		
comnts Fmd : This area is being clearcut to brake up stand 14. No residual due to sites age and because the majoroty of the old stand is being left .											
Total Acres.....		464									

**Proposed Treatments
With Limiting Factors**

Compartment: 15

Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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

TREATMENT LIMITING FACTORS:

Total Acres..... 0

Compartment 15
 T19N, R12W, Sec. 25, 26, 35, 36
 County: Lake
 Unit: Cadillac
 YOE: 2009
 Acres: 2,289 GIS Calculated
 Stand Examiner: Rick-James Hill
 Map Revised: 9/28/2007
 Map Phase: Pre-review

Field Map

Legend

-  Miris Corners
-  Paved Roads
-  Gravel Roads
-  Poor Dirt Roads
-  Trails
-  Berms
-  ORV Trails
-  MCCCT Trails
-  Horse Trails
-  Stand Boundaries
-  016 - Planting
-  045 - Natural Regeneratio/Mechanical, Other
-  097 - Other/Prescribed Burning
-  100 - Final Harvest
-  148 - Final Harvest/Natural Regeneration/Other
-  347 - Shelterwood-seed/Naturalregeneration/Prescribed Burning
-  400 - Thinning
-  458 - Thinning/Release/Other
-  800 - Selection
-  848 - Selection/Natural Regeneration/Other

