

# CADILLAC FOREST MANAGEMENT UNIT



## COMPARTMENT REVIEW PRESENTATION

### COMPARTMENT # 124 ENTRY YEAR: 2004

**Compartment Acreage (GIS Acres): 2042 County: Missaukee**

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**Revision Date: 10/29/2002 1:56 PM**

**Stand Examiner:** Bill Sterrett, Forester.

**Legal Description:** T24N, R7W, Sections 3, 4, 5 and 6

**RMU (if applicable):** 231

**Management Goals:** Habitat/Vegetative with emphasis on timber.

**Soil and Topography:** Rubicon sands predominate, soil fertility increases west to east. Rolling to very rolling uplands to level plains adjacent to streams and tributaries with some steep banks.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Sections 3 and 6 are solid state ownership. Mix of private and state in sections 4 and 5. The SENE and the NESE of sec. 5 would be good parcels to obtain for access and management. The NWNE is listed as available for disposal though it contains the Filer Creek. May want to review this..

**Unique, Natural Features:** Filer Creek and a tributary originating in stand in section 4. Potential for goshawk and red shouldered hawk. Wood turtle and blanding turtle potential along filer creek.

**Archeological, Historical, and Cultural Features** 19<sup>th</sup> or 20<sup>th</sup> Century logging camp in section 4.

**Special Management Designations or Considerations:** Compartment has both very hilly, steep terrain and riparian zones that will require special management considerations. Areas of compartment are experiencing poor aspen regeneration from what appears to be heavy deer browsing and poor re-growth of aspen. Some areas of poor quality oak and aspen appear better suited to pine types.

**Watershed and Fisheries Considerations:** Filer Creek, a high-quality tributary to the Manistee River, flows through Compartment 124. Filer Creek is a Designated Trout Stream, with excellent populations of naturally-reproducing brook and brown trout. Due to Natural Rivers considerations, no cutting should take place within 50' of any stream in the Compartment. All BMPs should be followed in wet areas near the streams. (M. Tonello, 10/15/02)

**Wildlife Habitat Considerations:** There are four compartments in the RMU. The intent of habitat management in this RMU is to maintain current timber types with a slight increase in aspen and a slight decrease in red and white pine in order to maintain the mixed upland and lowland hardwoods and conifer that currently exists. There has been a large increase in the red and white pine acreage in this RMU since the agreements were made. Many stands currently typed as aspen or oak have a lot of white pine coming into the under story. (L.Smith, 10/17/02)

**Mineral Resource and Development Concerns and/or Restrictions:** MINERAL RESOURCES

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium and an end moraine of coarse-textured till. Glacial drift thickness varies between 400 and 600 feet. There is approximately 275 feet of relief within the compartment. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan is quarried for gypsum in other areas of the State. A gravel pit is located one and one-half miles to the south and gravel potential is considered good. This area lies one mile west of Cannon Creek Field, which produced 870,000 Mcf gas from the Devonian Traverse Formation. This area is not currently leased for oil and gas.

**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

**Recreational Facilities and Opportunities:** Three miles of Miss-Kal Snowmobile Trail and 4 miles of North Miss. County ORV Trail. Also deer and small game hunting are popular recreation activities. (Koll 10/22/2)

**Fire Protection:** Good access throughout the compartment. Slight potential for large fire growth. Some private ownership generating additional human caused risk to accent what is already present with the recreational user and creating an additional fire hazards in the wild lands. (Koll 10/22/2)

**Additional Compartment Information:**

- **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

MISSAUKEE COUNTY

COMPARTMENT: 124

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		433	7				8	52										27	527
Bog or Marsh	13																		13
Cedar						3													3
Grass	7																		7
Marsh	30																		30
Mx Swmp Cnfr						19	7		17	25									68
Non Stocked	27																		27
Oak								133	181	72								232	618
Red Pine			72	44	198	56												42	412
Swamp Hrdwds										9									9
Upland Brush	17	53																	70
Upland Hdwds						21		29										32	82
White Pine					10	3												130	143
<b>Total</b>	<b>94</b>	<b>486</b>	<b>79</b>	<b>44</b>	<b>208</b>	<b>102</b>	<b>15</b>	<b>214</b>	<b>198</b>	<b>106</b>								<b>463</b>	<b>2009</b>

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

PERE MARQUETTE STATE FOREST

CADILLAC MGT UNIT

MISSAUKEE COUNTY

COMPARTMENT: 124

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	527																										527
V Bog or Marsh			13																								13
C Cedar				3																							3
G Grass					7																						7
N Marsh											30																30
Q Mx Swmp Cnfr												68															68
X Non Stocked													27														27
O Oak														451		167											618
R Red Pine																412											412
E Swamp Hrdwds																				9							9
U Upland Brush																53								17			70
M Upland Hdwds	21																							61			82
W White Pine																										143	143
Total	548		13	3	7						30	68	27	451		632				9				17	61	143	2009

PERE MARQUETTE STATE FOREST

CADILLAC MGT UNIT

MISSAUKEE COUNTY

COMPARTMENT: 124

**Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS**

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	9798 Cds	Hardwood	4072 Cds
Hardwood	1939 Mbf	Hardwood	397 Mbf
Softwood	9901 Cds	Softwood	1085 Cds
Softwood	597 Mbf	Softwood	103 Mbf
Sum TotVol	24771 Cds	Sum CutVol	6157 Cds
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	501
2042		Acres Meeting Silv Criteria.....	372
		Acres Not Meeting Silv Criteria.....	1637
		Acres Unable to Determine Silv Criteria For.....	

**CADILLAC MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 124** Entry Year: 1994

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
9	O8	7	80	45	red pine	low quality	seed tree	2		
comnts Fmd : Past trenching for oak regen? No significant regen found. Mark oak to leave, residual approx. 20sqft. Underplant with white pine, red pine, (maybe oak too?).										
13	A6	52	74	60	aspen (upland)	mature	improvement	1		
comnts Fmd : Very hilly; leave patches of oak, target half of stand for aspen regen, and half for oak mgmt. Leave steep hills forested.										
14	O8	124	80	45	red pine	low quality	seed tree	2		
comnts Fmd : Past trenching for oak regen? No significant regen found. Mark oak to leave, residual approx. 20sqft. Underplant with white pine, red pine, (maybe oak too?).										
17	O4	36	86	45	red pine	sparse	shelterwood-seed	2	planting	
comnts Fmd : Treat with adjacent stand, oak needs help, convert to red pine. Look at again.										
21	U1	53	5	58	red pine	nonstocked		0	planting	
comnts Fmd : Plant red pine.										
28	R6	26	55	55	red pine	mature	thinning	2		
comnts Fmd : Remove hardwoods when thinning pine, except oak. Rows will have to be marked.										
30	W6	3	53	60	white pine	immature	thinning	3		
45	R6	23	53	58	red pine	two aged	thinning	3		
comnts Fmd : Two-aged natural red pine stand w/some white pine. 90 & 50 yrs. Old. No Legal Access - 3rd priority.										
57	O9	39	77	50	oak	high risk	selection	1		
comnts Fmd : High risk, but has held well. Cut all aspen, red maple; mark oak, h. maple, and w. ash to cut.										
59	O9	39	77	60	oak	two aged		0	other - specify in remarks	
comnts Fmd : Two-aged, 80 yr old oak, over 5 year old aspen, red maple. Understory burn to kill red maple, regenerate aspen. Just treated last YOE.										
60	R6	32	45	55	red pine	immature	thinning	1		
comnts Fmd : Crooked rows but could be cut w/ "every 3rd row" spec. Close administration.										
67	R6	39	45	55	red pine	immature	thinning	1		
comnts Fmd : Crooked rows but could be cut w/ "every 3rd row" spec. Close administration.										
80	W6	25		38	white pine	unevenaged	selection	3		
comnts Fmd : SI tree year of origin is 1910. Very poor oak and aspen, some mortality. Cut all aspen, red maple, and high risk oak. This is a white pine site.										
81	W6	11		38	white pine	unevenaged	selection	3		
comnts Fmd : SI tree year of origin is 1910. Very poor oak and aspen, some mortality. Cut all aspen, red maple, and high risk oak. This is a white pine site.										
92	M9	32		75	northern hardwood	unevenaged	selection	1		
comnts Fmd : Thin, removing high risk oak, cull hardwoods, manage for oak & hardwoods. Note from '92 OI: Basswood height is 78' & 50yrs old.										
95	M9	21	52	65	aspen (upland)	mature	final harvest	1		
comnts Fmd : Mark healthy oak to leave in groups.										
96	W6	31		63	white pine	unevenaged	selection	1		
comnts Fmd : Select cut, manage for red & white pine, and oak. SI tree year of origin is 1942.										

**Total Acres..... 593**

**Proposed Treatments  
With Limiting Factors**

**Compartment: 124**    **Entry Year: 2004**

<b>Stand</b>	<b>Cover Type</b>	<b>Acres</b>	<b>Age</b>	<b>Site Index</b>	<b>Mgt Obj</b>	<b>Condition</b>	<b>Method Cut</b>	<b>Harvest Priority</b>	<b>Cultural Need</b>	<b>FD Status</b>
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TREATMENT LIMITING FACTORS:

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**Total Acres..... 0**



COMPARTMENT 124  
T24N, R7W, SEC. 3 - 6  
Missaukee County  
Cadillac Mgt Unit  
YOE 2004 ACRES 2042  
Revised: 10-8-02, Sterrett

### LEGEND

#### Treatments

-  FINAL HAR
-  IMPROVEME
-  SEED TREE
-  SELECTION
-  SHELTERWO
-  THINNING

#### Cultural Need

-  PLANTING

#### Hydrologic

-  Drains and Intermitt. Streams
-  Rivers and Streams

#### Section Lines

-  Section Lines
-  Survey Corners

#### Roads

-  COUNTY\_ROADS
-  HIGHWAYS
-  TWO-TRACKS
-  Closed Roads

#### Recreation

-  ORV Trail
-  Miss-Kal Sno-Trail

