

CADILLAC FOREST MANAGEMENT UNIT



COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 130 ENTRY YEAR: 2004

Compartment Acreage (GIS Acres): 2,689 acres County: Wexford

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

Stand Examiner: Steven Eisele, Forest Technician

Legal Description: T24N R11W, Sections 19, 20, 21, 28, 29, 30, 32, 33

RMU (if applicable): 237, mixed use.

Management Goals: Acceptable silvicultural guidelines will be followed in areas setback from the Manistee River. Within view of the river extended rotations and other appropriate measures will be taken to maintain the integrity of the visual and recreational resource. High quality natural growth white pine is found along the river. Because white pine of this quality is not common it should be retained and encouraged.

Soil and Topography: Terrain is generally flat except for slopes and banks above creeks and river. Soil series consist of Rubicon-Gray calm-Montcalm. Grayling-Gray calm and Kalkaska.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Northern part of compartment is solid state land. Private residences in southern part of compartment. Recently acquired land from Consumers Energy in sections 28, 29, 30 along river. Acquisitions still desired. Section 19 SWSW. Section 28 W 1/2. Section 29 SENE, SWNE, NWSW.

Unique, Natural Features: Manistee River, Wheeler Creek, and various unnamed creeks. Potential for wood turtle and massasauga along Manistee River and Wheeler Creek. Potential for goshawk and red shouldered hawk in hardwood and mature aspen stands.

Archeological, Historical, and Cultural Features: Woodland and prehistoric camps listed. Abandoned Manistee and Northeastern RR grade. Segments of old Indian trail in east part of compartment. Wheeler saw mill and school house.

Special Management Designations or Considerations: Protection of sites listed above. Special river influence zones of stands along river and creeks. Maintain visual and recreational resource as listed above.

Watershed and Fisheries Considerations: The Manistee River, Wheeler Creek, and several other smaller tributaries to the Manistee River flow through Compartment 130. All are Designated Trout Streams. Wheeler Creek is a high quality trout stream with naturally reproducing populations of brook trout. Therefore, no active management (clear cutting) for aspen regeneration should take place within 100 yards of Wheeler Creek (Stands 11, 12). Young aspen is a prime source of food for beavers, and beavers have the potential to devastate small trout streams like Wheeler Creek. The Manistee River in this area supports popular sportfisheries for brown trout, walleye, and northern pike. Brown trout are stocked by MDNR. Due to Natural Rivers considerations, no cutting should take place within 175' of the Manistee River (Stand 75), within 75' of Wheeler Creek (Stands 11, 12), or within 50' of any of the smaller tributaries located within

Compartment 130 (Stands 42, 99, 101, 102). All BMPs should be followed in wet areas near the streams. (M. Tonello, 10/15/02)

Wildlife Habitat Considerations: This compartment is one of 13 in this RMU which makes up most of the State ownership in Wexford County. The intent of the original agreement was to increase the aspen acreage and decrease the red pine/white pine acreage, while maintaining other existing cover types. Since the agreement was made, a large amount of ownership has been acquired that was originally Consumer Power land. Many aspen and oak stands have a lot of white pine in the understory. Many stands have already been converted to white pine or red pine management. Regeneration of the oak type is of concern. The Manistee River corridor and associated tributaries are valuable wildlife areas offering a good mixture of aspen, lowland hardwoods, upland hardwoods, mixed fruiting shrubs, and conifer cover providing valuable habitats for many wildlife species. These areas are heavily used by wintering deer. Restrictions on the management of early successional species and manipulation of the shrub component along these corridors will impact numerous wildlife species that used these areas in the past. (L.Smith, 10/17/02)

Mineral Resource and Development Concerns and/or Restrictions: No oil or gas development within the compartment at this time. Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. Glacial drift thickness varies between 400 and 600 feet. There is over 210 feet of relief within the compartment. Beneath the glacial drift are the Mississippian Coldwater Shale and the Marshall Sandstone. The Marshall was previously used as a building stone. A gravel pit is located one-half mile to the west. Gravel potential is considered to be good, especially the upland areas. This area lies four miles southeast of the prolific Silurian Niagaran reef trend. There does not appear to be any potential for Niagaran reefs in the area. This area is not currently leased for oil and gas and potential appears to be limited. Part of the compartment is surface only.

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. Harvey Bridge in section 28 crosses the Manistee River. It is a 3 ton bridge. Highway 37 runs north/south along the west edge of compartment.

Survey Needs: A survey request has been submitted for newly acquired Consumers Energy land in the southern part of compartment.

Recreational Facilities and Opportunities: The North Country Trail runs east/west through out the compartment. Harvey Bridge offers access to north and south side of the Manistee River. Canoe liveries use the access point at the bridge. Fishing, hunting and dispersed camping occur within the entire compartment. (Koll 10/22/2)

Fire Protection: Good road access to all areas of the compartment. Topographic feature create entry problems in places. Abandoned campfires at undesignated dispersed sites have been the cause of several fires in the past and that will likely continue. Mushrooming development on the private property will increase the risk of fire starts and expand the risk of property exposed to damaging fires. (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

WEXFORD COUNTY

COMPARTMENT: 130

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		75		135		394	239	49	67	123									1082
Bog or Marsh	1																		1
Cedar									11	10									21
Grass	108																		108
Jack Pine							31	146											177
Local Name	1																		1
Lowlnd Brush	6																		6
Lowlnd Poplr											16								16
Mx Swmp Cnfr							39			9	5		39						92
Oak												15							15
Red Pine						48	57	478	41										624
Sand Dune	4																		4
Swamp Hrdwds											27								27
Treed Bog	3																		3
Upland Brush	3																		3
Upland Hdwds							11	9	390	83	5	26						17	541
Total	126	75		135		442	377	682	509	225	53	41	39					17	2721

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

PERE MARQUETTE STATE FOREST

CADILLAC MGT UNIT

WEXFORD COUNTY

COMPARTMENT: 130

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	1082																										1082
V Bog or Marsh			1																								1
C Cedar				21																							21
G Grass					108																						108
J Jack Pine							31									146											177
I Local Name								1																			1
L LowInd Brush									6																		6
P LowInd Poplr										16																	16
Q Mx Swmp Cnfr												92															92
O Oak														15													15
R Red Pine																624											624
Y Sand Dune																		4									4
E Swamp Hrdwds																				27							27
D Treed Bog																							3				3
U Upland Brush																								3			3
M Upland Hdwds																									541	541	
Total	1082		1	21	108		31	1	6	16		92		15		770		4		27		3	3	541		2721	

PERE MARQUETTE STATE FOREST

CADILLAC MGT UNIT

WEXFORD COUNTY

COMPARTMENT: 130

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	25511 Cds	Hardwood	3123 Cds
Hardwood	1533 Mbf	Hardwood	394 Mbf
Softwood	13050 Cds	Softwood	2989 Cds
Softwood	1327 Mbf	Softwood	65 Mbf
Sum TotVol	44281 Cds	Sum CutVol	7030 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	517
2182		Acres Meeting Silv Criteria.....	746
		Acres Not Meeting Silv Criteria.....	1975
		Acres Unable to Determine Silv Criteria For.....	

CADILLAC MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 130 Entry Year: 2004

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
2	A6	7	59	52	aspen (upland)	mature	final harvest	1		
comnts Fmd : Previously listed as an M type but more aspen than hardwoods. Should convert well. Final.										
9	A6	13	69	58	aspen (upland)	mature	final harvest	1		
comnts Fmd : Mix of aspen,maple. Above creek. Leave beech and black cherry.										
11	A6	21	56	75	aspen (upland)	mature	final harvest	1		
comnts Fmd : Bottom land with wet areas. Buffer creek.										
12	A6	32	57	52	aspen (upland)	mature	final harvest	1		
comnts Fmd : Aspen along wheeler creek. Buffer/BMP's . Some wet areas. Leave cedar.										
15	A6	18	66	55	aspen (upland)	mature	final harvest	1		
comnts Fmd : Final harvest. Leave a few cherry.										
18	M6	11	74	50	northern hardwood	mature	selection	1		
21	A6	28	49	58	aspen (upland)	mature	final harvest	1		
comnts Fmd : Mixed stand of aspen and hdwds. Will convert to aspen.										
22	J6	117	63	45	red pine	mature	thinning	1		
comnts Fmd : Remove JP, getting some mortality. Convert to Rp naturally. Do during warm months for scarification.										
27	J6	29	63	45	red pine	mature	thinning	1		
comnts Fmd : Remove JP, getting some mortality. Convert to Rp naturally. Do during warm months for scarification.										
29	R9	3	63	50	red pine	mature	thinning	1		
comnts Fmd : Remove jp, leave oak and red.										
31	A6	16	61	55	aspen (upland)	mature	final harvest	1		
comnts Fmd : Final, leave some oak and beech.										
38	A6	3	61	55	aspen (upland)	mature	final harvest	1		
comnts Fmd : Final, leave some oak and beech.										
42	A9	15	76	55	aspen (upland)	mature	final harvest	1		
comnts Fmd : Creek influence area. BMP's.										
47	R6	13	63	48	red pine	mature	thinning	1		
comnts Fmd : Remove jack. Thin red.										
49	R9	108	63	50	red pine	mature	thinning	1		
comnts Fmd : Remove jp, leave oak and red.										
59	A6	14	47	60	aspen (upland)	two aged	final harvest	1		
comnts Fmd : Final harvest. 4" spec. Leave Oak especially along trail.										
70	A6	4	56	65	aspen (upland)	mature	final harvest	1		
comnts Fmd : Variety of diameters. BMP's for river. Some beaver activity.										
75	A6	7	56	65	aspen (upland)	mature	final harvest	1		
comnts Fmd : Variety of diameters. BMP's for river. Some beaver activity.										

CADILLAC MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 130

Entry Year: 2004

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
96	A6	6	54	62	aspen (upland)	mature	final harvest	1		
comnts Fmd : Leave cedar.										
99	A6	5	54	62	aspen (upland)	mature	final harvest	1		
comnts Fmd : Leave cedar.										
101	A6	6	54	62	aspen (upland)	mature	final harvest	1		
comnts Fmd : Harvest on flat above river. Leave cedar.										
102	A9	39	71	60	aspen (upland)	mature	final harvest	1		
comnts Fmd : Large diameter aspen with red maple mix. Wet spots. May also cut some of adjoining stand if accessible.										
103	R6	2	40	50	red pine	immature	thinning	2		
comnts Fmd : Do a first thin stay away from river.										
Total Acres.....		517								

**Proposed Treatments
With Limiting Factors**

Compartment: 130 **Entry Year: 2004**

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