

CADILLAC FOREST MANAGEMENT UNIT



COMPARTMENT REVIEW PRESENTATION

COMPARTMENT #4 ENTRY YEAR: 2007

Compartment Acreage (GIS Acres): 1913 County: Lake

Revision Date: 10/20/2005 10:25 AM

Stand Examiner: John Grajek, Forester

Legal Description: T20N, R12W, Sec. 8, 9, 16, 17

RMU (if applicable): 305 , mixed use

Management Goals: Major management emphasis is mixed use with no primary use designated.

Soil and Topography: The major soil types are Graycalm, Rubicon and Grayling sands.

Ownership Patterns, Development, and Land Use in and Around the Compartment: All four sections of this compartment have private parcels with a fairly large concentration of large and small ownerships clustered in the middle of the compartment. Desirable parcels for acquisition would be the 160 acre parcel in section 17 as well as the 40 acre parcel. The private 40 in the NW/SW of section 16 and the private 40 in the NE/SE of section 9. There is heavy hunting pressure in the compartment.

Unique, Natural Features (include only non-site specific and non-sensitive information): None noted.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): None noted at time of field work.

Special Management Designations or Considerations: Visual management techniques will be utilized where necessary. There are large blocks of mature Jack Pine and these stands will be treated with an attempt to minimize the effects of large clear-cuts.

Watershed and Fisheries Considerations: None.

Wildlife Habitat Considerations: This compartment is in the Newaygo Outwash Plain Ecosystem. LTA 5111 makes up most of the compartment. The far northeast edge of the compartment falls into the Highplains Ecosystem, LTA 2221. Soils in LTA 5111 are associations of Rubicon-Grayling, Grayling-Graycalm, or Plainfield sands, all of which are excessively drained. Soils in LTA2221 are Rubicon-Montcalm-Graycalm associations. In LTA 5551, historically, pre-settlement vegetation was variable, with upland conifers dominating most of the land surface. Most of these conifer forests were dependent upon wild fires for establishment and persistence. Fire prone outwash plains supported oak/pine barrens, pine barrens, and upland prairie along with large expanses of jack pine, red pine/jack pine, and red pine/oak forests. In LTA 2221, historically, forests were primarily beech and sugar maple with small inclusions of beech and white pine, or white pine, beech and red maple. Wildlife objectives are to maintain the cover type diversity with some conversion of jack pine to red and white pine. Species of special interest are deer and turkey. (L. Smith, 7/20/05)

Mineral Resource and Development Concerns and/or Restrictions: Sections 8, 9, 16 & 17, T20N, R12W, Lake County; Surface sediments consist of glacial outwash sand and gravel and post-glacial alluvium and minor end moraine of coarse textured till. The glacial drift thickness varies between 400 and 600 feet. 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 four miles to the southeast and potential is considered good along the east edge. The nearest oil and gas production is at Peacock Field located eight miles to the southwest. The Field produced nearly 1,7000,000 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.

Survey Needs: None anticipated at time of field work.

Recreational Facilities and Opportunities: Portions of the Lincoln Hills ORV/Snowmobile Trail are located in this compartment. The single track motorcycle trail, also runs adjacent to the ORV/Snowmobile Trail. There is some illegal ORV damage in this compartment. This area is also used for dispersed camping, primarily during the fall hunting seasons.

Fire Protection: This area has potential for large fires, due to the fuels, and location. Portions of this compartment have significant stands of jack pine, with urban interface concerns. The area would not have good response times from local fire departments, because of the location.

10/21/2005 8:04:51 AM

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

PERE MARQUETTE STATE FOREST

CADILLAC MGT UNIT

LAKE COUNTY

COMPARTMENT: 4

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	154																										154
V Bog or Marsh			106																								106
G Grass					6																						6
J Jack Pine							1122																				1122
L Lowlnd Brush									61																		61
O Oak														325													325
R Red Pine																72											72
E Swamp Hrdwds																					7						7
W White Pine																										60	60
Total	154		106		6		1122		61					325		72					7					60	1913

PERE MARQUETTE STATE FOREST

CADILLAC MGT UNIT

LAKE COUNTY

COMPARTMENT: 4

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	2797 Cds	Hardwood	309 Cds
Hardwood	1059 Mbf	Hardwood	437 Mbf
Softwood	7205 Cds	Softwood	3318 Cds
Softwood	911 Mbf	Softwood	522 Mbf
Sum TotVol	13942 Cds	Sum CutVol	5545 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	513
1913			

CADILLAC MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 4

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
17	J6	134	55	48	jack pine	immature	final harvest	1		
comnts Fmd : This stand is a J-6/0-7 and there is mortality in the stand.. Several trees were bored and the age matches up. PRE-REVIEW NOTES: some discussion about leaving part of the stand or cutting this as a seed tree cut. There is a sedge component in the ground cover and this will affect regeneration. Artificial scarification or trenching should be considered.										
20	J6	19	55	50	jack pine	mature	final harvest	1		
comnts Fmd : This stand has mortality. The stand should be harvested and replanted or seeded. All oak reproduction and should be protected. Some oaks should be left for mast and seed production.										
23	J6	38	55	50	jack pine	mature	final harvest	1		
comnts Fmd : This stand has mortality and should be harvested. THERE IS GRASS AND BLUEBERRY AS GROUND COVER IN THIS STAND.										
26	J6	27	55	50	jack pine	mature	final harvest	1		
comnts Fmd : There is mortality in this stand in both the Jack Pine and the Oak.. Stand should be harvested. Some Oaks should be left for mast. All Oak reproduction should be left. The snowmobile trail passes through this stand. The stand to the east was harvested last entry, was planted and doing well. There is Balck Cherry in the understory and the ground cover is Blueberry. There was discussion at the pre-review about leaving the portion of the stand between the trail and Twin Creek Rd..										
28	J6	129	55	55	jack pine	immature	final harvest	1		
comnts Fmd : The stand has mortality in both Oak and Jack Pine. The stand should be harvested and leave all or most of the Oaks for mast and seed production. The stand is bordered on the east side by PRIVATE PROPERTY. There is a Survey Corner south of the intersection of Hawks Trail and 10 Mile Rd.. This stand has a snowmoile trail in it. The stand can have some small openings created in it. These can about an acre in size and possibly where there may be some Oak regeneration. I bored a 4" tree that showed 48 rings @ breast height. THIS DOES NOT INCLUDE THE YEARS TO REACH BREAST HEIGHT. Blueberry and grass are the ground cover. The trees are in decline. At the pre-review there was discussion to marking out units within the stand to be left uncut and to be left as a seed source.										
41	W9	5	79	60	white pine	mature	thinning	1		
comnts Fmd : This stand borders on private parcels to the north and the west. The is a chop line on the west boundary of this stand. There was at least one mature White Pine which had a lightning hit. The mature products should be removed along with some of the pulp trees and move the stand along to produce more log trees. There is also a pocket of Red Pine within the stand and it may yield some poles when the sale is put up. AT THE NORTH EDGE OF THE STAND THERE IS AN AREA WHICH MAY BE INACCESSIBLE, THAT PART OF THE STAND COULD BE CUT BY WILDLIFE DIVISION.										
44	O5	37	89	50	oak	mature	shelterwood-prep	1		
comnts Fmd : This stand has a mix of speices. The aspen is in clones and will probably expand when cut. The Jack Pine varies in quality, size and where it occurs in the stand. The Red Pine pulp can be left as well as the Oak pulp. Some areas could be replanted to Jack Pine. Some Oaks can be marked to leave for mast and seed production.										
48	W9	37	89	65	white pine	mature	thinning	1		
comnts Fmd : This stand should have a sale. We can remove all of the Aspen and Red Maple. The White Pine and Red Pine log trees should be cut and release the pulp trees of both species. There is some Blueberry in the stand. The Aspen can come back in pockets where it is and this will produce food and cover for grouse and deer. There is a road into the stand for access. THIS STAND SHOULD BE CUT IN THE WINTER ALONG WITH Std. 148 AND Std. 248.										
148	W6	11	18	70	white pine	immature	shelterwood-seed	1		
comnts Fmd : This stand should be thinned. There is Oak reproduction coming up in the stand. Some of the logs trees can come out and some of the pulp will have to come to make room for the log trees which will be felled. The understory has two sticks in it. Stand should be cut with Std. 48 and Std. 248. Winter cut would probably be the best idea for all of the stands. The Aspen should be cut to regenerate it.										
214	J9	65	55	48	jack pine	mature	final harvest	1		
comnts Fmd : Stand should be harvested. There is Oak in the understory, Jack Pines are dying as well as some of the Oaks. THE STAND LINES FOR THE PRIVATE PARCELS WILL HAVE TO BE CHANGED FOR THE LANSING DATABASE, THEIR LINES SHOW US OWNING MORE LAND THAN IS INDICATED ON THE MAP.										
248	W9	7	89	65	white pine	mature	thinning	1		
comnts Fmd : Stand should be accessible in the winter, and should remain scheduled for a cut. In the event it cannot be cut we can make the changes to the stand record.										
348	E6	4	83	50	swamp hardwoods	mature	thinning	1		
comnts Fmd : This stand is wet and not accesible, data transferred from old records.										
Total Acres.....		513								

**Proposed Treatments
With Limiting Factors**

Compartment: 4

Entry Year: 2007

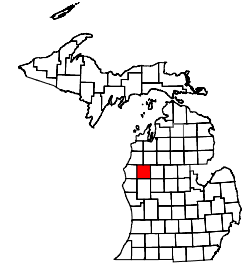
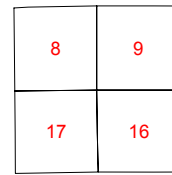
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 4
 T20N, R12W, Sec. 8, 9, 16, 17
 County: Lake
 Unit: Cadillac
 YOE: 2007
 Acres: 1,913 GIS Calculated
 Stand Examiner: John Grajek
 Map Revised: 10/18/2005
 Map Phase: Pre-review



Legend

- Miris Corners
- - Poor Dirt Roads
- Stand Boundary
- ▨ 100 - Final Harvest
- ▧ 300 - Shelterwood-seed
- ▩ 400 - Thinning
- 700 - Shelterwood-prep

