



**CADILLAC FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 03 ENTRY YEAR: 2008

Compartment Acreage: (GIS Acres) 3042 County: Lake

Revision Date: 8/20/2006

Stand Examiner: Rick-James Hill

Legal Description: T20N, R12W, Sec. 10, 11, 14, 15, 22, 23, 26

RMU (if applicable): 303

Management Goals: Timber Intensive

Soil and Topography: hilly topography with some steep spots. Soils are excessively drained sands with a Rubicon and Montcalm being the most common.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

This compartment is continuous state land ownership. There are State land to the east and west with federal land to the north and private to the south.

Unique, Natural Features (include only non-site specific and non-sensitive information):

The Michigan Natural Features Inventory lists the Virginia Bluebells as having occurred in the compartment. Great Plains Spittlebug, Eastern Box Turtle, Goshawk, Red-shouldered Hawk, Loons, Eagle, Bigmouth Shiner and Dusted Skipper are listed as having occurred in sections surrounding the compartment. The compartment has the potential for the Goshawk, Red-shouldered Hawk, and Eastern Box Turtle.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): None known

Special Management Designations or Considerations: None

Watershed and Fisheries Considerations: The Pine River flows just to the east of Compartment 3. The Pine River is a Designated Trout Stream with naturally reproducing populations of brook, brown, and rainbow trout. It is also a State-Designated Natural River. There are several small, unnamed spring tributaries to the Pine that originate in Compartment 3; however no treatments are planned near them. -M. Tonello, 11-6-06.

Wildlife Habitat Considerations: This is the only compartment in RMU 303. Major management emphasis is to maintain the aspen type and to create age class diversity. Featured wildlife species are deer, ruffed grouse, and turkey. Many of the remaining oak stands are filling in with white pine.

Mineral Resource and Development Concerns and/or Restrictions:

Sections 10, 11, 14, 15, 22 & 23, T20N-R12W, Lake 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 400 and 800 feet. Beneath the glacial drift are the Mississippian Michigan Formation and Bayport Limestone. The Michigan is quarried for gypsum and the Bayport for limestone in other areas of the State. A gravel pit is located one mile to the east and potential is good. The nearest oil and gas production is at Peacock Field located eight miles to the southwest. The Field produced nearly 1,700,000 BO from the Traverse Limestone. The compartment is not currently leased for oil and gas exploration.

Roads, Vehicle Access, BMP Concerns: in general roads in this area are fair to good made up of graded soil

Survey Needs: None at this time

Recreational Facilities and Opportunities: this compartment is heavily used by ORVs and Snowmobiles. This compartment also sees heavy hunting pressure with deer, turkey and ruffed grouse being the main species.

Fire Protection: Fire protection provided by DNR, Baldwin FO. The terrain would allow for good access for suppression equipment. However, this area does not have many roads, so there is some potential for larger fire growth.

Additional Compartment Information: none at this time

- **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 on the attached compartment maps:**
 - ◆ **Base feature information, stand numbers, cover types**
 - ◆ **Proposed treatments**
 - ◆ **Proposed road access system (optional)**
 - ◆ **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: 3

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not Coded	STAND AGE CLASS																Total	
		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
Aspen		331	516		459	277			76	22									1681
Cedar																		7	7
Grass	28																		28
Hemlock																		19	19
Oak					34	50			464	324	101								973
Red Pine						43			4										47
Upland Hdwds			41						69										110
White Pine					162				11									4	177
Total	28	331	557		655	370			624	346	101							30	3042

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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: 3

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	1681																										1681
C Cedar				7																							7
G Grass					28																						28
H Hemlock						19																					19
O Oak														973													973
R Red Pine																47											47
M Upland Hdws																								110			110
W White Pine																										177	177
Total	1681			7	28	19								973		47								110		177	3042

PERE MARQUETTE STATE FOREST

CADILLAC MGT UNIT

LAKE COUNTY

COMPARTMENT: 3

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	23860 Cds	Hardwood	5440 Cds
Hardwood	4111 Mbf	Hardwood	1166 Mbf
Softwood	2167 Cds	Softwood	148 Cds
Softwood	245 Mbf	Sum CutVol	7920 Cds
Sum TotVol	34739 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	387
3042			

CADILLAC MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 3

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
4	R6	4	75	60	red pine	mature	thinning	1			
comnts Fmd : Stand should be row thinned.											
8	O9	61	81	55	oak	immature	seed tree	2			
comnts Fmd : Cut a portation of the stand some, areas are thick with white pine regen others don't have much. The stand should be clear cut and the white pine and oak should respond well to this cut.											
23	A6	13	76	50	aspen (upland)	high risk	final harvest	1	natural regeneration		
comnts Fmd : clear cut this stand as the aspen is high Risk											
27	M9	25	77	60	northern hardwood	mature	selection	2			
comnts Fmd : Thin to 70 sf											
29	A6	17	77	60	aspen (upland)	mature	final harvest	2			
comnts Fmd : clear cut with reserves thin islands of oak and aspen leave a few islands of hardwoods and oak avg BA of 40 to 60 in islands.											
32	A6	12	77	60	aspen (upland)	high risk	final harvest	1	natural regeneration		
comnts Fmd : clear cut with reserves, leave island of oak Expand aspen clones thin oak areas											
36	O6	44	90	48	oak	immature	seed tree	2	natural regeneration		
comnts Fmd : Vary little oak regen some scatered white pine seed tree or shelter wood to 10 Sq Ft and burn											
38	A6	34	77	50	aspen (upland)	mature	final harvest	1			
comnts Fmd : clear cut aspen should sprout as will some of the oak											
42	O9	35	90	50	oak	immature	shelterwood-seed	1	other - specify in remarks		
comnts Fmd : The stand should be harvested. Aspen clones should be expanded. The area to cut for the expansion can be marked with ORANGE paint. All Red Maple should be cut as well. This will remove some quantity of oak. Those area not cut should be treated with a trenching machine to provide a seed bed for acorns in the stand											
44	A6	31	6	55	aspen (upland)	immature	final harvest	1	natural regeneration		
comnts Fmd : clear cut with reserves, This is an aspen oak stand cut the aspen and leave islands of oak leave a few scatered oak in aspen clones but no more then 4 an acre.											
45	M9	44	76	55	northern hardwood	immature	selection	1			
comnts Fmd : this stand has northern hardwoods perdomintly along with oak and aspen thin the stand to 70sq ft picking croptrees with an emphasis on gaining an uneven age structure											
50	R6	9	38	50	red pine	immature	thinning	1			
comnts Fmd : Stand is adjacent to snowmobile trail.											
55	O9	5	77	60	oak	immature	shelterwood-seed	1	natural regeneration		
comnts Fmd : expand aspen clones thin all oak and maple to 60 Sq ft make regen holes where available.											
56	A6	22	80	50	aspen (upland)	high risk	seed tree	1	natural regeneration		
comnts Fmd : stand has large portion of old aspen needs to be cleer cut lave 10 sq ft of oak as a standerd											
68	O9	12	76	55	oak	mature	shelterwood-prep	1	release		
comnts Fmd : Qulity oak shelterwood prep by cuting aspen, maple and beach out cut to 70 sq ft											
74	O6	19	77	60	oak	immature	seed tree	1	natural regeneration		
comnts Fmd : seed tree to 10 sq ft and burn if oak regen fails plant white pine											
Total Acres.....		387									

**Proposed Treatments
With Limiting Factors**

Compartment: 3

Entry Year: 2008

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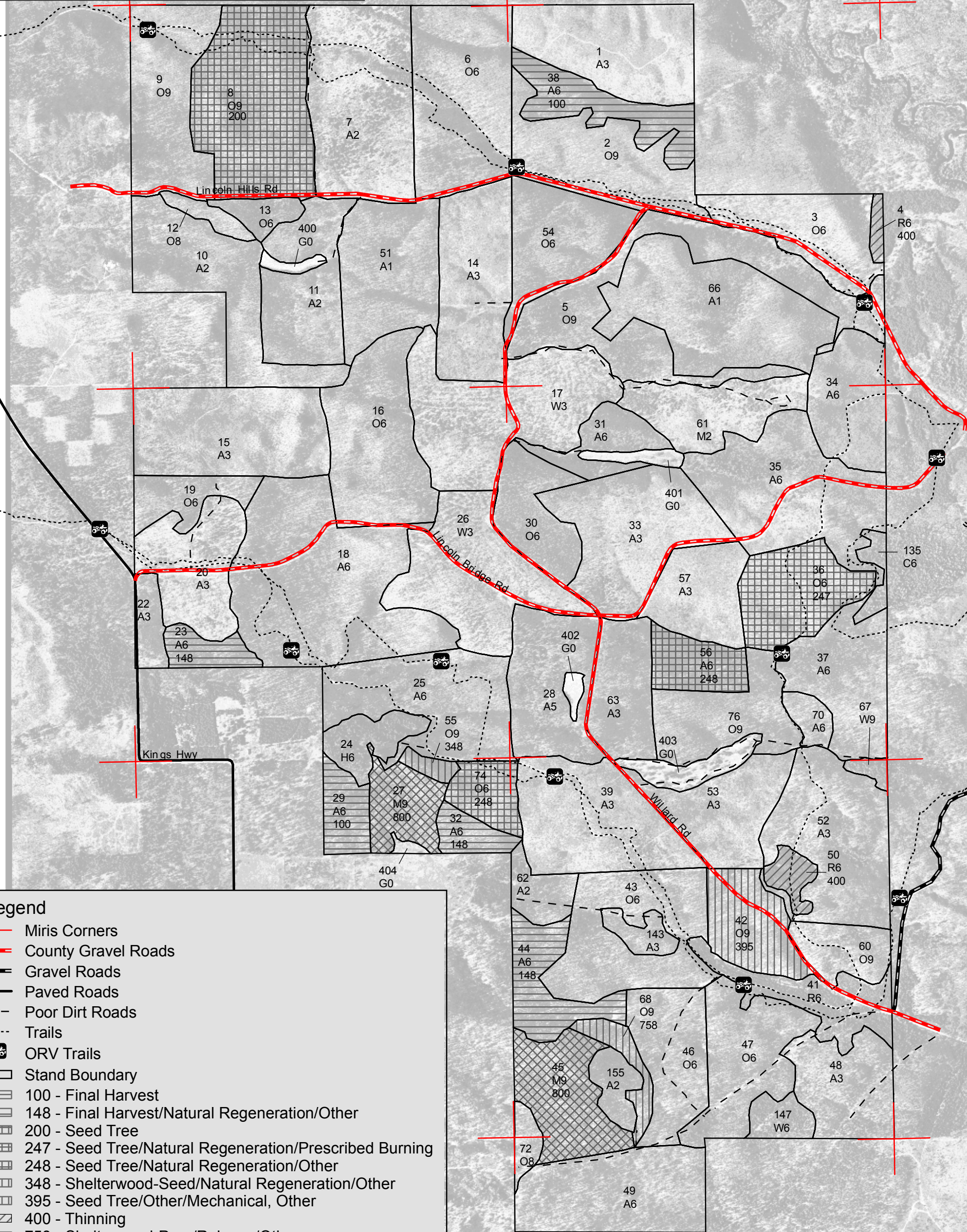
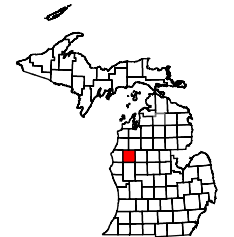
TREATMENT LIMITING FACTORS:

Total Acres..... 0

Compartment 3
 T20N, R12W, Sec. 10, 11, 14, 15, 22, 23, 26
 County: Lake
 Unit: Cadillac
 YOE: 2008
 Acres: 3,042 GIS Calculated
 Stand Examiner: Rick Hill
 Map Revised: 11/02/2006
 Map Phase: Pre-review

Field Map

10	11
15	14
22	23
	26



Legend

- Miris Corners
- County Gravel Roads
- Gravel Roads
- Paved Roads
- Poor Dirt Roads
- Trails
- ORV Trails
- Stand Boundary
- 100 - Final Harvest
- 148 - Final Harvest/Natural Regeneration/Other
- 200 - Seed Tree
- 247 - Seed Tree/Natural Regeneration/Prescribed Burning
- 248 - Seed Tree/Natural Regeneration/Other
- 348 - Shelterwood-Seed/Natural Regeneration/Other
- 395 - Seed Tree/Other/Mechanical, Other
- 400 - Thinning
- 758 - Shelterwood-Prep/Release/Other
- 800 - Selection

