



**TRAVERSE CITY FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 126 ENTRY YEAR: 2007

Compartment Acreage: 1891 County: Kalkaska

Stand Examiner: Dave Johnson

Legal Description: T26N-R05W-Sections 18
T26N-R06W-Sections 13, 14,

Management Goals: The Pere Marquette State Forest Management Plan identifies this compartment as Habitat/vegetative – wildlife intensive.

Soil and Topography: Most of the upland is Rubicon Sand or Saugatuck Sand. The lowland consists of Rifle Peat. Compartment is relatively flat in sections 14 and 18 and rolling in section 13.

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

This compartment is comprised of all state ownership except the SW corner of section 13 (40 acre private parcel). Ownership surrounding the compartment is almost entirely state. The land use remains mainly hunting with seasonal homes and camps.

Unique, Natural Features: Large treed bog in section 18.

Archeological, Historical, and Cultural Features: None listed

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: Compartment 126 Wildlife Considerations:

The northwest portion, including the west side, of Sec. 14 is located on an outwash plain with poorly drained soils (LTA 5149). Topography is level with poorly drained peat or muck soils. Historically, occasional wildfires or windfall events occurred here. A cedar stand and several aspen stands are found on this formation within this compartment. The central portion of Sec. 14 and the southeast portion of Sec. 18 lie on broad, outwash plain (LTA 5111). Topography is level with excessively drained sandy soils. Historically, large wildfires were reported in this LTA type. Within this compartment, aspen stands dominate here. There are also small stands of red pine, white pine, jack pine, and upland shrubland. There is also a large treed bog located here, which is unusual for this LTA. The central portion and majority of Compartment 126 is part of an ice contact ridge (LTA 3121). Soils are well drained loamy sand. Within this compartment, aspen and maple dominate. There are also a few grassy openings.

Northern white cedar stands are important habitat for wildlife. They are important winter cover for white-tailed deer. Many insect-eating birds inhabit these areas in summer. Examples of wildlife species found here include northern saw-whet owl, chickadee, ruby-crowned kinglet, red squirrel, and snowshoe hare. Ruffed grouse use different aged aspen throughout their life cycle. Younger stands provide cover while older stands provide catkins (food source) for the winter months. Clearcutting helps facilitate age class diversification of aspen by mimicking the necessary disturbances vital for regeneration. The creation of CWD trees for drumming logs and maintaining berry-producing shrubs is also desirable. Woodcock prefer areas that are similar to grouse, but with a higher water table.

Openings are evaluated for wildlife value and may require hand-felling or prescribed burning to maintain this habitat type. Many plant species found here are fire-dependant. Examples include little bluestem, jack pine, and rough blazing star. These openings provide grassy nest sites, plentiful seeds and insects, and cover.

Shrublands provide many berry producing trees and shrubs. Examples of wildlife benefiting from management of these habitats include badger, northern flicker, deer mouse, and green snake.

A treed bog is a unique habitat type. Soils are acidic. Leatherleaf, Michigan holly, blueberry, labrador tea, white pine, and tamarack can be found here. Examples of wildlife species include meadow vole and palm warbler. Additionally, many raptors hunt over these areas. Appropriate buffer zones should be placed if any prescriptions are performed nearby.

Wildlife considerations for northern hardwood stands involve maintaining tree species diversity, the protection of den/nesting trees & snags, Coarse Woody Debris (CWD), and maintaining a scattering of mast-producing trees or shrubs. This will insure use by many species of wildlife. Examples of wildlife found here include ovenbird, red fox, scarlet tanager, and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions: Sections 18, T26N–R5W & Sections 13 & 14, T26N-R6W, Kalkaska County

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift is the Mississippian Marshall Sandstone. The Marshall was previously used as a building stone. A gravel pit is located three miles to the northeast, but there is potential on uplands. This area is located four miles northwest of the Garfield 8 Field. The field produces from the Devonian Richfield and the Ordovician PdC. Sections 13 and 18 have been recently leased in the Compartment.

Vehicle Access: No new access needed

Survey Needs: None

Recreational Facilities and Opportunities: Cranberry Snowmobile Trail, Kalkaska ORV Trail, remote camping and hunting.

Fire Protection: DNR Fire Protection is from the Kalkaska Field Office. Fire Department protection is from Bear Lake Fire Dept. This cover type is primarily aspen/hardwood, so the chance for large fire here is minimal. Access is acceptable, and Urban Interface is not an issue.

Additional Compartment Information: This compartment is leased to the Military (DMA) under the 20 year lease agreement.

****** Cover type details, proposed treatments and stands designated as FDF are listed in the attached reports:**

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

Suggested potential old growth

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

PERE MARQUETTE STATE FOREST

TRAVERSE CITY FOREST MGT UNIT

KALKASKA COUNTY

COMPARTMENT: 126

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not	STAND AGE CLASS																Total	
	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
Aspen			181	92	186	418	204												1081
Cedar										49									49
Grass	35																		35
Jack Pine							3												3
Red Pine						28												15	43
Treed Bog	42																		42
Upland Brush	39																		39
Upland Hdwds					8		47	106										433	594
White Pine								5											5
Total	116		181	92	194	446	254	111		49								448	1891

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

PERE MARQUETTE STATE FOREST

TRAVERSE CITY FOREST MGT UNIT

KALKASKA COUNTY

COMPARTMENT: 126

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	1081																										1081
C Cedar				49																							49
G Grass					35																						35
J Jack Pine							3																				3
R Red Pine																43											43
D Treed Bog																							42				42
U Upland Brush																								39			39
M Upland Hdwds																								594			594
W White Pine																										5	5
Total	1081			49	35		3								43							42	39	594		5	1891

PERE MARQUETTE STATE FOREST

TRAVERSE CITY FOREST MGT UNIT

KALKASKA COUNTY

COMPARTMENT: **126**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	18539 Cds	Hardwood	3176 Cds
Hardwood	694 Mbf	Softwood	280 Cds
Softwood	1350 Cds	Softwood	34 Mbf
Softwood	142 Mbf	Sum CutVol	3524 Cds
Sum TotVol	21561 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	308
1891			

TRAVERSE CITY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 126 Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
2	R6	7	42	57	red pine	immature	thinning	1		
Wld : Stand 2 – 2005 SGG: Concur with FMFM.										
6	R9	3		67	red pine	mature	selection	1		
comnts Fmd : TAKE CARE NOT TO DAMAGE R1 UNDERSTORY										
Wld : Stand 6 – 2005 SGG: Concur with FMFM.										
10	A5	103	55	54	aspen (upland)	mature	final harvest	1		
comnts Fmd : leave some pockets of beech where possible for mast production. Dkj 3/05										
Wld : Stand 10 – 2005 SGG: Concur with FMFM regarding beech. Also, coordinate beech residual with clones of male aspen. Leave ~20 small (~ ¼ ac) islands of aspen/beech for mast production. WLD can mark. CWD spec: Trees felled for CWD should be 12-14" DBH and cut at a height of 4-5 ft. Logs should be left within 2-3 ft of stump. Try to accomplish selection of approx. 50 CWD trees by a spec, if not WLD can mark.										
16	A5	22	39	60	aspen (upland)	immature	final harvest	1		
Wld : Stand 16 – 2005 SGG: Leave ~4 small (~ ¼ ac) islands of male aspen for catkin production. WLD can mark. CWD spec: Trees felled for CWD should be 12-14" DBH and cut at a height of 4-5 ft. Logs should be left within 2-3 ft of stump. Leave about 10 CWD. WLD can mark.										
20	R9	3		67	red pine	mature	selection	1		
comnts Fmd : TAKE CARE NOT TO DAMAGE R1 UNDERSTORY										
Wld : SGG: Concur with FMFM.										
23	R9	9		67	red pine	mature	selection	1		
comnts Fmd : TAKE CARE NOT TO DAMAGE R1 UNDERSTORY										
Wld : SGG: Concur with FMFM.										
24	R6	11	41	58	red pine	immature	thinning	1		
Wld : SGG: Concur with FMFM.										
26	M4	7	65	58	northern hardwood	two aged	removal	1		
comnts Fmd : Area was experimental oak understory planting- there are red oak established in understory. Remove overstory to release oak. Dkj 3/05										
Wld : SGG: Concur with FMFM.										
28	M4	8	65	58	northern hardwood	two aged	removal	1		
comnts Fmd : Area was experimental oak understory planting- there are red oak established in understory. Remove overstory to release oak. Dkj 3/05										
Wld : SGG: Concur with FMFM.										
32	R6	2	41	58	red pine	immature	thinning	1		
Wld : SGG: Concur with FMFM.										
35	A5	115	45	57	aspen (upland)	low quality	final harvest	1		
comnts Fmd : Visual mgt. along snowmobile trail will be needed. Dkj 3/05										
Wld : Stand 35 – 2005 SGG: Incorporate about 10 small (~ ¼ ac) islands of aspen/black cherry for catkin/mast production. WLD can mark. Coordinate leave islands with planning of visual management for trails. CWD spec: Trees felled for CWD should be 12-14" DBH and cut at a height of 4-5 ft. Logs should be left within 2-3 ft of stump. Try to accomplish selection of approx. 50 CWD trees by a spec, if not WLD can mark.										
44	U0	11		48	upland brush	nonstocked		0	opening maintenance	
comnts Fmd : Scattered sugar maple and aspen										
Wld : Stand 44 – 2005 SGG: Burn to stimulate native warm season grasses (little bluestem) and maintain stand in semi-open condition.										

TRAVERSE CITY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 126 **Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
46	U0	28		48	upland brush	sparse		0	opening maintenance	
comnts Fmd : Scattered pockets of A2 and Black Cherry										
Wld : Stand 46 – 2005 SGG: Potentially burn with similar habitat to south in comp 128 to stimulate native warm season grasses (little bluestem) and maintain stand in semi-open condition. Alternative could be to establish a small pocket of native warm or cool season vegetation conducive to use by wildlife for food and cover.										
49	R6	8	42	57	red pine	immature	thinning	1		
Wld : SGG: Concur with FMFM.										
50	A5	10	40	51	aspen (upland)	low quality	final harvest	1		
Wld : Stand 50 – 2005 SGG: Leave ~ 2 small (~ ¼ ac) islands of male aspen for catkin production. WLD can mark. CWD spec: Trees felled for CWD should be 12-14" DBH and cut at a height of 4-5 ft. Logs should be left within 2-3 ft of stump. Leave about 5 CWD. WLD can mark.										
404	G0	5		53	grass	nonstocked		0	other - specify in remarks	
Wld : Stand 404 – 2005 SGG: Consider eradicating spotted knapweed and revegetate to native warm or cool season vegetation conducive to use by wildlife for food and cover. Take into account that snowmobile trail bisects this opening.										
Total Acres.....		352								

**Proposed Treatments
With Limiting Factors**

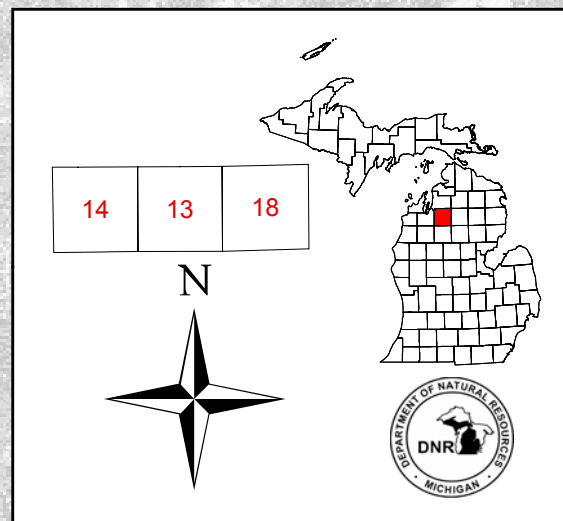
Compartment: 126 **Entry Year: 2007**

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 126
 T26N, R5W, Sec. 18
 T26N, R6W, Sec. 13, 14
 County: Kalkaska
 Unit: Traverse City
 YOE: 2007
 Acres: 1,891 GIS Calculated
 Stand Examiner: Dave Johnson
 Map Revised: 10/11/2005
 Map Phase: Pre-review



Field Map

Legend

- Miris Corners
- - Poor Dirt Roads
- Trails
- Stand boundary
- ▨ 027 - Opening Maintenance/Prescribed Burning
- ▩ 096 - Other
- ▧ 100 - Final harvest
- ▦ 400 - Thinning
- ▤ 500 - Removal
- ▣ 800 - Selection

Name Public Gravel
 Name Public Dirt
 Name Trails

