



**GRAYLING FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 262 ENTRY YEAR: 2007

GIS Compartment Acreage: 1896 County: Crawford

Revision Date: 09/09/2005

Stand Examiner: Mark Montei

Legal Description: T27N R2W Sections 10, 11, 12

RMU (if applicable):

Management Goals: To provide an area that allows for National Guard training while maintaining forest health, productivity, sustainability, species diversification, and structural diversity throughout the compartment.

Soil and Topography:

The soils are Grayling/Graycalm sand in section 10; Grayling/Graycalm and Klacking sand in section 11; Grayling/Graycalm and Kellogg sand in section 12. The area is flat in section 10 and 11 with the terrain becoming lightly rolling in section 12.

Ownership Patterns, Development, and Land Use in and Around the Compartment: All state land in compartment is either Military Board Land (160 acres) or is under long term lease (1736 acres) to the Camp Grayling National Guard (L-1479) for purposes of military training. On Military Board lands military training has precedence over resource management activities. The DNR will coordinate all prescribed activities with the National Guard to ensure they are compatible with military training needs. On long-term lease lands the area is under the 1935 long-term lease agreement L-1479 (Act 154 P. A. 1935) with the Michigan National Guard, Department of Military Affairs. The agreement provides for use by the military during their encampment, with no permanent buildings or improvements to be erected. Military needs take precedence over resource management needs on long-term lease lands. The DNR will coordinate all prescribed activities with the National Guard to ensure they are compatible with military training needs.

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

Several occurrences of threatened and endangered species occur in and around the compartment.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):

The compartment is used by the National Guard for military activities that are consistent with the long-term lease agreement L-1479. The Range 30 Impact Area (fenced) is located 1 ½ miles southwest of the compartment.

Special Management Designations or Considerations:

Section 10 is in the North Camp Grayling Pine Barrens Area. Treatments for this area are based on the "North Camp Grayling Pine Barrens Management Plan" prepared by the Michigan Natural Features Inventory on January 28, 2000; Report 2000-02. Current treatments are based on specific reference to the

section entitled “Management” found on pages 10 – 18. In general, the management objectives are to reduce the overall jack pine cover type; reduce the sizes of the patches of jack pine; increase vegetative diversity by planting red pine and white pine; reduce exotic species; increase native species; maintain or increase rare species. This can be accomplished through a series of cutting, burning and planting.

Watershed and Fisheries Considerations: Duck Lake is just to the west of the compartment. It is 12 acres in size. There is no swamp or wetland associated with the lake.

Wildlife Habitat Considerations:

Section 10 is part of the North Camp Grayling Pine Barrens Area. Section 11 is an area that has been managed for ruffed grouse. This year-of-entry will complete the cutting of the 20-acre blocks. Section 12 is managed for long rotation red pine.

Mineral Resource and Development Concerns and/or Restrictions:

Surface sediments consist of ice-contact sand and gravel. The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift is the Coldwater Shale. The Coldwater Shale does not have a current economic use. A gravel pit is located in section 24, State’s Bald Hill Gravel Pit, and potential is good on the upland areas. A clay pit is located in T27N R01W section 07, just east of the compartment. It is current in the process of being leased to the Crawford County Road Commission. The compartment is located two miles north of the Conner’s Marsh Field. The field has produced 20 Bcf gas from the Ordovician Prairie du Chien. There are no oil and gas leases in this compartment, as it is within the military area.

Vehicle Access:

The compartment is accessed by Wakeley Bridge Road, Bucks East and West Trail, and Lewiston Grade Road. All of these roads are dirt County maintained roads. Bald Hill Road (a dirt County maintained road) is located just to the east of the compartment. Additional access is provided by numerous forest trails. No additional roads are needed at this time. There should be consideration for closing some forest trails after treatments are completed. There are five gates that are maintained by the National Guard to secure the area from vehicular traffic. All new roads created through management activities are to be closed upon completion. No existing roads have been identified for closure.

Survey Needs:

No survey needs are anticipated at this time.

Recreational Facilities and Opportunities:

Dispersed recreational use occurs throughout the compartment.

Fire Protection:

Section 10 is jack pine and oak/jack pine. Section 11 is various ages of aspen and oak. Section 12 is saw log-sized red pine. Access for fire suppression apparatus is via Bald Hill Road. Some of the roads and trails are sandy and hilly slowing response time.

Additional Compartment Information:

LOTS Compartment Acreage: 1920.

- **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, 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

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

CRAWFORD COUNTY

COMPARTMENT: 262

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		208	388	108	27				100	20									851
Grass	70																		70
Jack Pine					31			175	87										293
Oak									151	55									206
Red Pine								350	4									94	448
Treed Bog										3									3
Upland Brush	25																		25
Total	95	208	388	108	58			525	342	78								94	1896

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

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

CRAWFORD COUNTY

COMPARTMENT: 262

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	851																										851
G Grass					70																						70
J Jack Pine							124							169													293
O Oak	67													139													206
R Red Pine																448											448
D Treed Bog																							3				3
U Upland Brush																								25			25
Total	918				70		124							308		448							3	25			1896

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

CRAWFORD COUNTY

COMPARTMENT: 262

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	5757 Cds	Hardwood	4255 Cds
Hardwood	2 Mbf	Softwood	3049 Cds
Softwood	5914 Cds	Sum CutVol	7304 Cds
Softwood	2194 Mbf		
Sum TotVol	16063 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	517
1896			

GRAYLING FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 262 Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
7	A6	23	75	52	aspen (upland)	mature	final harvest	2		
comnts Fmd : Treatment delayed for ten years to increase age class diversification for ruffed grouse habitat management. Cut this YOE to complete the cutting. The stand will regenerate to aspen and oak at an acceptable stocking level. 10/18/2004 mm										
11	A6	20	80	50	aspen (upland)	mature	final harvest	2		
comnts Fmd : Treatment delayed for ten years to increase age class diversification for ruffed grouse habitat management. Cut this YOE to complete the cutting. The stand will regenerate to aspen and oak at an acceptable stocking level. 10/18/2004 mm										
17	O6	67	71	48	aspen (upland)	mature	final harvest	2		
comnts Fmd : The stand will regenerate to aspen, red maple and oak at an acceptable stocking level. 08/15/2005 mm										
18	J6	57	75	49	oak	mature	final harvest	2	other - specify in remarks	
comnts Fmd : This stand is in the North Camp Grayling Pine Barrens Area. 08/25/2005 mm Treatment is in agreement with the "North Camp Grayling Pine Barrens Management Plan" that was prepared by Michigan Natural Features Inventory. A stand of mixed species is expected and acceptable through natural regeneration. 09/09/2005 mm										
21	J6	39	61	45	jack pine	mature	final harvest	2	other - specify in remarks	
comnts Fmd : This stand is in the North Camp Grayling Pine Barrens Area. 08/25/2005 mm Treatment is in agreement with the "North Camp Grayling Pine Barrens Management Plan" that was prepared by Michigan Nautral Features Inventory. A stand of mixed species is expected and acceptable through natural regeneration. 09/09/2005 mm										
23	J6	15	60	49	jack pine	mature	final harvest	2	other - specify in remarks	
comnts Fmd : This stand is in the North Camp Grayling Pine Barrens Area. 08/25/2005 mm Treatment is in agrement with the "North Camp Grayling Pine Barrens Management Plan" that was prepared by Michigan Natural Features Inventory. Stand of mixed species is expected and acceptable through natural regeneration. 09/09/2005 mm										
24	A4	6	35	50	aspen (upland)	low quality	final harvest	2		
comnts Fmd : Stand is doing poorly due to hypoxylon canker. Cut to reestablish stand in better condition. The stand will regenerate to aspen. 12/07/2004 mm This stand is in the North Camp Grayling Pine Barrens Area. 08/25/2005 mm Treatment is in agreement with the "North Camp Grayling Pine Barrens Management Plan" prepared by Michigan Natural Features Inventory. A stand of mixed species is expected and acceptable through natural regeneration. 09/09/2005 mm										
26	J5	24	59	47	jack pine	mature	final harvest	2	other - specify in remarks	
comnts Fmd : This stand is in the North Camp Grayling Pine Barrens Area. 08/25/2005 mm Treatment is in agreement with the "North Camp Grayling Pine Barrens Management Plan" that was prepared by Michgan Natural Features Inventory. A stand of mixed species is expected and acceptable through natural regeneration. 09/09/2005 mm										
43	A6	19	75	52	aspen (upland)	mature	final harvest	2		
comnts Fmd : Treatment delayed for ten years to increase age class diversification for ruffed grouse habitat management. Cut this YOE to complete the cutting. The stand will regenerate to aspen and oak at an acceptable stocking level. 10/18/2004 mm										
44	A6	20	75	52	aspen (upland)	mature	final harvest	2		
comnts Fmd : Treatment delayed for ten years to increase age class diversification for ruffed grouse habitat management. Cut this YOE to complete the cutting. The stand will regenerate to aspen and oak at an acceptable stocking level. 10/18/2004 mm										
45	A6	19	75	52	aspen (upland)	mature	final harvest	2		
comnts Fmd : Treatment delayed for ten years to increase age class diversification for ruffed grouse habitat management. Cut this YOE to complete the cutting. The stand will regenerate to aspen, oak red maple and jack pine at an acceptable stocking level. 10/18/2004 mm										
52	O6	16	80	50	oak	mature	final harvest	2		
comnts Fmd : Treatment delayed for ten years to increase age class diversification for ruffed grouse habitat management. Cut this YOE to complete the cutting. The stand will regenerate to aspen, oak, red maple and jack pine at an acceptable stocking level. 10/18/2004 mm										
53	O6	22	80	50	oak	mature	final harvest	2		
comnts Fmd : Treatment delayed for ten years to increase age class diversification for ruffed grouse habitat management. Cut this YOE to complete the cutting. The stand will regenerate to aspen, oak, red maple and jack pine at an acceptable stocking level. 10/18/2004 mm										
54	O6	17	80	50	oak	mature	final harvest	2		
comnts Fmd : Treatment delayed for ten years to increase age class diversification for ruffed grouse habitat management. Cut this YOE to complete the cutting. The stand will regenerate to aspen, oak, red maple and jack pine at an acceptable stocking level. 10/18/2004 mm										

GRAYLING FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 262 Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status	
62	J6	30	75	49	oak	mature	final harvest	2	other - specify in remarks		
comnts Fmd : This stand is in the North Camp Grayling Pine Barrens Area. 08/25/2005 mm Treatment is in agreement with the "North Camp Grayling Pine Barrens Management Plan" that was prepared by Michigan Natural Features Inventory. A stand of mixed species is expected and acceptable through natural regeneration. 09/09/2005 mm											
64	J6	19	60	45	oak	mature	final harvest	2	other - specify in remarks		
comnts Fmd : This stand is in the North Camp Grayling Pine Barrens Area. 08/25/2005 mm Treatment is in agreement with the "North Camp Grayling Pine Barrens Management Plan" that was prepared by Michigan Natural Features Inventory.. A stand of mixed species is expected and acceptable through natural regeneration. 09/09/2005 mm											
65	J6	20	60	49	oak	mature	final harvest	2	other - specify in remarks		
comnts Fmd : This stand is in the North Camp Grayling Pine Barrens Area. 08/25/2005 mm Treatment is in agreement with the "North Camp Grayling Pine Barrens Management Plan" that was prepared by Michigan Natural Features Inventory. A stand of mixed species is expected and acceptable through natural regeneration. 09/09/2005 mm											
66	A6	3	35	50	aspen (upland)	high risk	final harvest	2			
comnts Fmd : Stand is doing poorly due to hypoxylon canker. Cut to reestablish stand in better condition. The stand will regenerate to aspen. 12/07/2004 mm 08/25/2005 mm Treatment is in agreement with the "North Camp Grayling Pine Barrens Management Plan" that was prepared by Michigan Natural Features Inventory. A stand of mixed species is expected and acceptable through natural regeneration. 09/09/2005 mm											
67	A6	4	35	50	aspen (upland)	high risk	final harvest	2			
comnts Fmd : Stand is doing poorly due to hypoxylon canker. Cut to reestablish stand in better condition. The stand will regenerate to aspen. 12/07/2004 mm 08/25/2005 mm Treatment is in agreement with the "North Camp Grayling Pine Barrens Management Plan" that was prepared by Michigan Natural Features Inventory. A stand of mixed species is expected and acceptable through natural regeneration. 09/09/2005 mm											
68	J5	9	59	47	oak	mature	final harvest	2	other - specify in remarks		
comnts Fmd : This stand is in the North Camp Grayling Pine Barrens Area. 08/25/2005 mm Treatment is in agreement with the "North Camp Grayling Pine Barrens Management Plan" that was prepared by Michigan Natural Features Inventory. A stand of mixed species is expected and acceptable through natural regeneration. 09/09/2005 mm											
69	J5	23	59	47	oak	mature	final harvest	2	other - specify in remarks		
comnts Fmd : This stand is in the North Camp Grayling Pine Barrens Area. 08/25/2005 mm Treatment is in agreement with the "North Camp Grayling Pine Barrens Management Plan" that was prepared by Michigan Natural Features Inventory. A stand of mixed species is expected and acceptable through natural regeneration. 09/09/2005 mm											
70	J5	11	59	47	oak	mature	final harvest	2	other - specify in remarks		
comnts Fmd : This stand is in the North Camp Grayling Pine Barrens Area. 08/25/2005 mm Treatment is in agreement with the "North Camp Grayling Pine Barrens Management Plan" that was prepared by Michigan Natural Features Inventory. A stand of mixed species is expected and acceptable through natural regeneration. 09/09/2005 mm											
81	J6	15	60	49	jack pine	mature	final harvest	2	other - specify in remarks		
comnts Fmd : This stand is in the North Camp Grayling Pine Barrens Area. 08/25/2005 mm Treatment is in agreement with the "North Camp Grayling Pine Barrens Management Plan" that was prepared by Michigan Natural Features Inventory. A stand of mixed species is expected and acceptable through natural regeneration. 09/09/2005 mm											
82	A6	19	75	54	aspen (upland)	mature	final harvest	2			
comnts Fmd : Treatment delayed for ten years to increase age class diversification for ruffed grouse habitat management. Cut this YOE to complete the cutting. The stand will regenerate to aspen and oak at an acceptable stocking level. 10/18/2004 mm											
Total Acres.....		517									

**Proposed Treatments
With Limiting Factors**

Compartment: 262 Entry Year: 2007

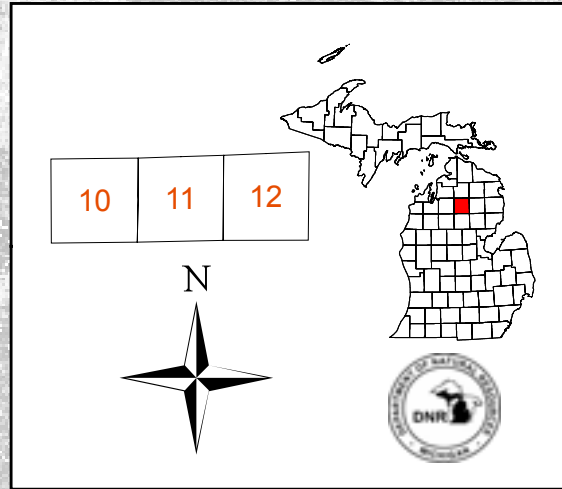
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 262
 T27N, R2W, Sec. 10-12
 County: Crawford
 Unit: Grayling
 YOE: 2007
 Acres: 1,896 GIS Calculated
 Stand Examiner: Mark Montei
 Map Revised: 9/15/2005
 Map Phase: Pre-review



Legend

- Miris Corners
- - Poor Dirt Roads
- Trails
- × Gates
- × Gravel pit
- Stand Boundary
- ▨ Biodiversity/Old Growth Area
- ▤ 100 - Final harvest
- ▥ 197 - Final harvest/Other/Prescribed burning

Name Poor Dirt Roads
 Name Trails
Name Water Features

