



**GRAYLING FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 277 ENTRY YEAR: 2007

GIS Compartment Acreage: 1055 County: Crawford

Revision Date: 09/07/2005

Stand Examiner: Mark Montei

Legal Description: T27N R01W Sections 19, 20

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. In addition, to maintain a healthy habitat for the endangered *Dendroica kirtlandii* (Kirtland's warbler), taking into account warbler management plan directives, species diversification, and visual management.

Soils and Topography: The soils consist of Grayling/Graycalm sands and are level on the southern 2/3rd of the compartment to very hilly on the northern 1/3rd of the compartment.

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

This compartment is entirely comprised of State-owned lands. The compartment is under the 1935 long-term lease agreement L-1479 (Act 254 P. A. 1935) with the Michigan National Guard, Department of Military Affairs. The agreement provides for the 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 leased 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 or near the compartment.

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

The compartment has had two significant fires occur recently in it. The Bald Hill fire occurred in 1975 and burned about 75% of the compartment and the Stephan Bridge Road fire occurred in 1990 and burned about 75% of the compartment. Both fires occurred over approximately the same area in the compartment. Together both fires burned about 70% of the compartment. It appears that fire occurs in the same general area within the compartment. Fire has historically played a significant role in the development of the current conditions in the compartment.

Special Management Designations or Considerations: The compartment is part of lands under long-term lease to the National Guard. Section 20 is, also, part of the Old Down River Kirtland's warbler Management Unit, per the Cooperative Agreement with the Department of Natural Resources and the Department of Military Affairs of 1986.

Watershed and Fisheries Considerations: One small bog is located in the south-central part of the compartment. No recognized water courses flow into, or out of, the compartment.

Wildlife Habitat Considerations:

The compartment is part of the Old Down River Kirtland's Warbler Management Unit.

Mineral Resource and Development Concerns and/or Restrictions:

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 600 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 of Michigan Bald Hill Gravel Pit, and the potential for gravel is good. The area is Military Board Land and not leased for oil and gas. The nearest production is Conner's Marsh Field just to the east. The field has produced over 20 Bcf gas from the Ordovician Prairie du Chien. Oil and gas leases are located to the east.

Vehicle Access: Access into the compartment is provided by North Down River Road (a paved County maintained road), and Martindale Road (a gravel maintained County road) on the east side of the compartment. Martindale Road provides access to private residences to the southeast of the compartment. Bald Hill Road (a dirt maintained County road) is located just to the west of the compartment. Several poor dirt forest trails traverse through the compartment. No new roads need to be created at this time. No roads need to be closed at this time. All new roads created through management activities are to be closed upon completion.

Survey Needs: No survey needs are anticipated at this time.

Recreational Facilities and Opportunities: Dispersed recreational use occurs throughout the compartment. Recreational use is limited by military activities and Kirtland's warbler management in the compartment.

Fire Protection: The compartment has a history of significant fires. Two large fires occurred in the compartment in 1975 and 1990. Much of the compartment is comprised of young jack pine and/or young jack pine/oak. The northern edge of the compartment is comprised of mature oak and red pine. Access for fire suppression equipment is on North Down River Road (paved), Bald Hill Road, and Martindale Road. The forest roads in the compartment are sandy and hilly in spots slowing response time for suppression equipment. The closest water source is at North Down River Road at the North Branch of the AuSable River approximately 2 miles east of the compartment. There are no established fuel breaks in or around the compartment. There are no wells or pipelines located in the compartment.

Additional Compartment Information:

None.

LOTS Compartment Acreage: 1043.

- **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**

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

CRAWFORD COUNTY

COMPARTMENT: **277**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	2385 Cds	Hardwood	2385 Cds
Hardwood	63 Mbf	Hardwood	63 Mbf
Softwood	1685 Cds	Softwood	1232 Cds
Softwood	191 Mbf	Softwood	121 Mbf
Sum TotVol	4578 Cds	Sum CutVol	3985 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	
1055		221	

GRAYLING FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 277 **Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
4	O6	70	80	54	oak	two aged	final harvest	2		
comnts Fmd : Most trees have fire scars from previous fires. The trees are of low vigor. The understory is dense red maple. The area is very hilly. The stand will regenerate to oak, aspen and red maple. 01/22/2005 mm There is no information that this stand was in either the 1975 fire or 1990 fire but almost every tree has a fire scar on it. The fire scars could be from another fire. 08/15/2005 mm										
6	R6	70	80	53	oak	low quality	final harvest	2		
comnts Fmd : The stand will regenerate to oak, aspen and jack pine. 08/15/2005 mm This stand was part of the 1990 Stephan Bridge Road Fire. 08/15/2005 mm										
9	O6	15	80	53	aspen (upland)	mature	final harvest	2		
comnts Fmd : The stand will regenerate to oak, aspen and red maple. 08/15/2005 mm										
10	R6	35	67	51	red pine	immature	thinning	2		
comnts Fmd : (DOWN RIVER WARBLER AREA COMP 2. Old comment.) Kirtland's Warbler habitat. Remove jack pine and oak. Mark red pine. 01/25/2005 mm										
16	O6	3	68	52	oak	low quality	final harvest	2		
comnts Fmd : (ASPEN OAK SOME RED PINE CUT IN 1991. Old comment.) The stand will regenerate to oak, aspen and red maple. 08/15/2005 mm										
17	J5	9	68	48	jack pine	low quality	final harvest	3		
comnts Fmd : (DOWN RIVER WARBLER AREA BLOCK 2 YOE 1997. Old comment.) Kirtland's Warbler habitat. 01/25/2005 mm This stand was part of both the 1975 Bald Hill Fire and the 1990 Stephan Bridge Road Fire. 08/15/2005 mm Try for mixed species of natural regeneration. If the stocking is insufficient then plant to jack pine. 09/07/2005 mm										
19	O6	10	83	52	oak	mature	final harvest	2		
comnts Fmd : Repeated fires have left almost all trees with multiple fire scars and open wounds. The stand will regenerate to oak, aspen and red maple. 01/22/2005 mm This stand was part of both the 1975 Bald Hill Fire and the 1990 Stephan Bridge Road Fire. 08/15/2005 mm										
23	O6	9	70	53	oak	low quality	final harvest	2		
comnts Fmd : Numerous fire scars. 01/22/2005 mm Kirtland's Warbler habitat. The stand will regenerate to oak, aspen and red maple. 01/25/2005 mm										
Total Acres.....		221								

**Proposed Treatments
With Limiting Factors**

Compartment: 277 **Entry Year: 2007**

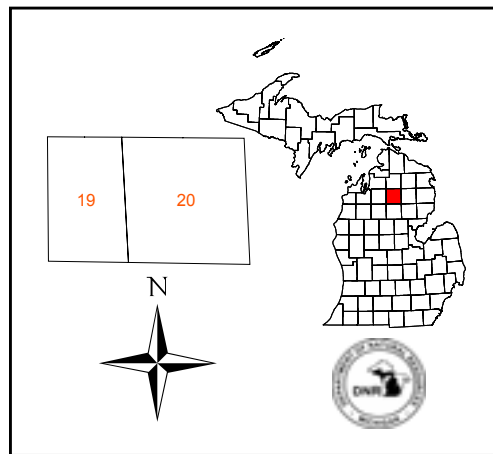
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 277
 T27N, R1W, Sec. 19, 20
 County: Crawford
 Unit: Grayling
 YOE: 2007
 Acres: 1,055 GIS Calculated
 Stand Examiner: Mark Montei
 Map Revised: 9/15/2005
 Map Phase: Pre-review



Legend

- Miris Corners
- - Poor Dirt Roads
- ⊗ Gravel Pit
- Stand Boundary
- ▨ 100 - Final harvest
- ▩ 400 - Thinning

Name Paved Roads
Name Gravel Roads

