



**GRAYLING FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 259 ENTRY YEAR: 2008

Compartment Acreage: 996

County: Crawford

Revision Date: 08/30/2006

Stand Examiner: Mark Montei

Legal Description: T27N R02W Sections 25, 26, Grayling Township, NE

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 species Dendroica kirtlandii (Kirtland's warbler), taking into account warbler management plan directives, species diversification, and visual management.

Soil and Topography: Grayling and Graycalm-Klacking sand and a small area of Lupton-Tawas and Leafriver muck in the southeast corner of the compartment.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The compartment is comprised of a mixture of Military Board lands and private property. This compartment is under the 1935 long-term lease agreement L-1479 (Act 254 P. A. 1935) with the Michigan National Guard, Department of Military and Veterans Affairs. The agreement provides for the use by the military during encampment, with no permanent buildings or improvements to be erected. 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. The United State Fish and Wildlife Service owns the SWSE of section 26. Some residential development is occurring on the private property. There is a 2.0 acre (242 feet X 360 feet) parcel of private property in the SWSW NWSW of section 26. A small cabin along Wakeley Bridge Road is located on this property.

Unique, Natural Features (include only non-site specific and non-sensitive information): The endangered species Dendroica kirtlandii (Kirtland's warbler) occupies some of the compartment.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): There is a historical occupation site just north of the compartment in section 26.

Special Management Designations or Considerations: Treatments and access into much of the area may be limited during National Guard training exercises for much of the year.

Watershed and Fisheries Considerations: The headwaters of Beaver Creek are in the southeast corner of the compartment. There is a small pond that has formed from an active beaver dam.

Wildlife Habitat Considerations: The area is section 25 that is south and east of North Down River Road is managed for the endangered species Dendroica kirtlandii (Kirtland's warbler) except for the swamp in the southeast corner of section 25.

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 400 and 600 feet. Beneath the glacial drift is the Marshall Sandstone. The Marshall was previously used as a building stone. A gravel pit is located one mile to the northwest and potential is good. The Compartment is located two miles west of Conner's Marsh Field. The field has produced over 20 Bcf gas from the Ordovician Prairie du Chien. There are no oil and gas leases in this compartment, as it is in the Military Affairs area.

Vehicle Access: The certified County Roads in the compartment are Wakeley Bridge Road, Artillery Trail, Goss Parkway, North Down River Road, Ketchum Truck Trail and Dyer Truck Trail. The National Guard has five gates in place in or near the compartment to deny vehicle access during training exercises. These gates are along the north edge of the compartment. No existing roads need to be blocked at this time. No new roads need to be constructed in the compartment 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: There are no designated recreational facilities or any anticipated opportunities in the compartment because of National Guard training. Dispersed recreation occurs throughout the compartment.

Fire Protection: The area in section 25 that is south and east of North Down River Road is managed for the endangered species Dendroica kirtlandii (Kirtland's warbler), except for the swamp in the southeast corner of section 25. This is currently J3 (young jack pine) and has the potential for devastating fires. Most of the compartment (except a small portion in the northwest corner of section 26) was part of the Stephan Bridge Road Fire on May 08, 1990. The area can be accessed via Wakeley Bridge Road, Artillery Trail, Goss Parkway, North Down River Road, Ketchum Truck Trail and Dyer Truck Trail. Suppression activities need to be coordinated with the National Guard for access during their training activities.

LOTS Compartment Acreage: 998 acres.

Additional Compartment Information:

- **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: 259

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	227																										227
S Black Spruce		23																									23
G Grass					35																						35
J Jack Pine							459																				459
O Oak														185													185
R Red Pine																61											61
T Tamarack																					4						4
Z Water																									2		2
Total	227	23			35		459							185		61					4				2		996

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

CRAWFORD COUNTY

COMPARTMENT: **259**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	1566 Cds	Hardwood	1064 Cds
Hardwood	253 Mbf	Hardwood	262 Mbf
Softwood	1329 Cds	Softwood	200 Cds
Softwood	62 Mbf	Softwood	26 Mbf
Sum TotVol	3525 Cds	Sum CutVol	1840 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	
996		137	

GRAYLING FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 259 Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status	
1	O9	19	96	55	oak	mature	delayed removal	2			
comnts Fmd : (POTENTIAL FIRE WOOD PERMIT AREA. Old comment.) Delayed removal treatment. Cut all stems greater than 5 inches. Do not cut oak small er than 5 inches. Protect the oak regeneration. The stand was part of the Stephan Bridge Road Fire on May 08, 1990. 03/23/2006 mm											
3	O9	30	86	46	oak	mature	delayed removal	2			
comnts Fmd : Delayed removal treatment. Cut all stems greater than 5 inches. Do not cut oak small er than 5 inches. Protect the oak regeneration. The stand was part of the Stephan Bridge Road Fire on May 08, 1990. 03/23/2006 mm											
5	O9	8	86	50	oak	mature	delayed removal	2			
comnts Fmd : The stand was part of the Stephan Bridge Road Fire on May 08, 1990. 03/23/2006 mm											
11	O6	33	80	59	oak	immature	thinning	2			
comnts Fmd : Thin oak; remove aspen and red maple; protect red pine (large and small) and any obvious den trees. There are pockets of good small red pine in the stand. 03/23/2006 mm											
22	O9	7	96	58	oak	mature	shelterwood-seed	2			
comnts Fmd : The stand was part of the Stephan Bridge Road Fire on May 08, 1990. The management objective is oak but will accept any combination of oak, aspen, red maple that will provide for sufficient stocking to meet the regeneration needs of the stand. If the stocking level is determined to be insufficient in the stand (or parts of the stand), the stand (or parts of the stand) will be artificially regenerated to red pine. 03/23/2006 mm											
24	R6	32	66	53	red pine	immature	thinning	2			
comnts Fmd : Cut all species but red pine (mark to leave a small basal area of hardwood for stand diversification). In areas of hig basal area of red pine cut some red pine to reduce the basal area and provide room to harvest the sale. The stand was part of the Stephan Bridge Road Fire on May 08, 1990. 03/27/2006 mm											
25	O6	8	80	59	oak	immature	thinning	2			
comnts Fmd : Thin oak; remove aspen and red maple; protect red pine (large and small) and any obvious den trees. There are pockets of good small red pine in the stand. The stand was part of the Stephan Bridge Road Fire on May 08, 1990. 03/23/2006 mm											
Total Acres.....		137									

**Proposed Treatments
With Limiting Factors**

Compartment: 259 Entry Year: 2008

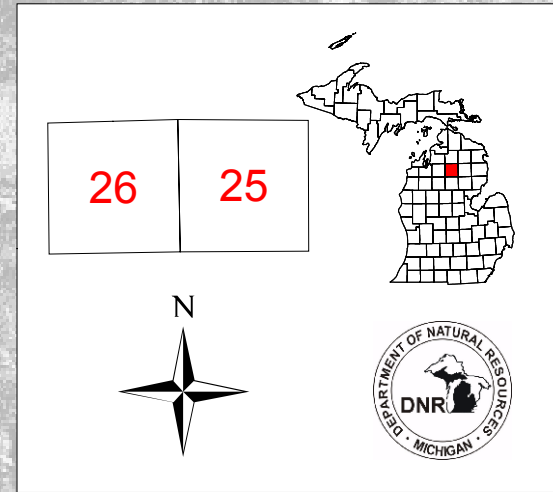
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 259
 T27N, R02W, Sec. 25, 26
 County: Crawford
 Unit: Grayling
 YOE: 2008
 Acres: 996 GIS Calculated
 Stand Examiner: Mark Monteil
 Map Revised: 10/17/2006
 Map Phase: Pre-review



Legend

- RIs Corners
- Miris Corners
- Gravel Roads
- Paved Roads
- Poor Dirt Roads
- Military Gates
- Residence
- Stand Boundary
- 300 - Shelterwood-seed
- 400 - Thinning
- 600 - Delayed Removal

