



**GRAYLING FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW REPRESENTATION**

COMPARTMENT # 233 ENTRY YEAR: 2008

GIS Compartment Acreage: 1391 County: Crawford

Revision Date: 08/30/2006

Stand Examiner: Mark Montei

Legal Description: T26N R03W Sections 22, 27, 34

Management Goals: To maintain forest health, productivity, sustainability, species diversification, and structural diversity throughout the compartment while providing for multiple use and visual management.

Soils and Topography: The soils are Grayling/Graycalm sands. The terrain is level to the south to gentle rolling and steep hills to the north.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The compartment is surrounded by State land except to the south. There is a 40 acre parcel in the SWSW of section 27 that is owned by the Crawford County Road Commission and is an active borrow pit.

Unique, Natural Features (include only non-site specific and non-sensitive information): Henry's elfin and Hill's thistle are located in the compartment.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): There are no known features.

Special Management Designations or Considerations: None.

Watershed and Fisheries Considerations: There are no water courses in the compartment.

Wildlife Habitat Considerations: Deer, turkey and grouse are important wildlife species in the compartment. Continue to provide treatments that will maintain the current status in the compartment.

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 400 feet. Beneath the glacial drift is the Michigan Formation. The Michigan is quarried for gypsum elsewhere in the State. A gravel pit is located in Section 27 and potential is good. The nearest production is Beaver Creek Field, located six miles to the southwest. The field has produced over 21 MBO from the Devonian Richfield and over 5 Bcf gas from the Ordovician Prairie du Chien. The compartment is not leased for oil and gas development.

Vehicle Access: Access is from Barker Lake Road, the snowmobile trails and numerous two-track trails. There are numerous trails that need to remain open to provide access because of the hilly terrain. No trails need to be blocked and no new trails need to be constructed.

Survey Needs: No survey needs are anticipated.

Recreational Facilities and Opportunities: Snowmobile Trails #487 & #489 traverse through the compartment.

Fire Protection: Access for fire apparatus is from Barker Lake Road, the snowmobile trails and numerous two-track trails. Much of the compartment is a mixture of jack pine and oak. There are numerous trails that need to remain open to provide access because of the hilly terrain. There is a pipeline that traverses diagonally through the compartment. There are no well sites in the compartment. The closest water source is Barker Lake, located just west of the compartment in the northeast corner of section 28.

Additional Compartment Information: 200 American chestnuts (*Castanea dentata*) were planted in section 34. No surviving trees can be found at this time.

LOTS Compartment Acreage: 1400 acres.

- **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**

10/23/2006 10:20:31 AM

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

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

CRAWFORD COUNTY

COMPARTMENT: 233

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	162																										162
G Grass					58																						58
J Jack Pine							585							40													625
N Marsh											2																2
O Oak														429													429
R Red Pine																109											109
U Upland Brush																								5			5
Z Water																									1		1
Total	162				58		585				2			469		109								5	1	1391	

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

CRAWFORD COUNTY

COMPARTMENT: **233**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	3029 Cds	Hardwood	2380 Cds
Hardwood	332 Mbf	Hardwood	97 Mbf
Softwood	4702 Cds	Softwood	3767 Cds
Softwood	232 Mbf	Softwood	170 Mbf
Sum TotVol	8859 Cds	Sum CutVol	6681 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	409
1391			

GRAYLING FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 233 Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
2	O6	22	89	52	oak	mature	final harvest	2		
comnts Fmd : SHOULD TREAT STAND NEXT YEAR OF ENTRY. Old comment. Most of area will regenerate to oak. Some of the area will regenerate to aspen. Check for status of stand density. The stand is on a hill. There is a little jack pine along the north and west. 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 th 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 jack pine. 02/08/2006 mm										
5	O6	27	88	47	oak	mature	final harvest	2		
comnts Fmd : Good advanced oak regeneration. The stand will regenerate to oak and other commercial species. Leave red pine along the snowmobile trail for visual concerns. 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 th 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 jack pine. 02/08/2006 mm										
7	J6	24	36	52	jack pine	mature	final harvest	2		
comnts Fmd : Good advanced oak regeneration. Replant those areas that don't regenerate to oak to jack pine. 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 th 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 jack pine. 02/08/2006 mm										
13	O6	11	85	50	oak	mature	final harvest	2		
comnts Fmd : Part of stand was in harvested with stand 6. Old comment. Good advanced oak regeneration. The stand will regenerate to oak and jack pine. 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 th 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 jack pine. 02/08/2006 mm										
15	J6	88	89	46	jack pine	mature	final harvest	2	planting	
comnts Fmd : There is some blowdown from a wind event during the spring of 2005. There is an occasional poor quality oak. The stand is influenced by the snowmobile trail. Plant areas that do not regenerate to oak with jack pine. 02/08/2006 mm										
16	J6	13	89	46	jack pine	mature	final harvest	2	planting	
comnts Fmd : Used SI from stand 15. Good advanced oak regeneration. Plant areas that do not regenerate naturally to oak with jack pine. The stand is influenced by the snowmobile trail. 02/08/2006 mm										
19	R6	26	47	55	red pine	immature	thinning	2		
comnts Fmd : CUT EVERY THIRD ROW. Updated from treatment report 1999 (Sale #239901). The stand was thinned (every third row-ETR in 1999. Timber sale #72-23-099-01, Barker Lake Red Pine. Current prescription is to mark individual trees to remove approximately 1/3 of the stems. 02/08/2006 mm										
21	J6	38	65	44	jack pine	mature	final harvest	2	planting	
comnts Fmd : Leave red pine and oak along Barker Lake Road for a width of three chains for visual concerns. Include Compartment 221, Stand 023 when treating this stand. This is a narrow area along the east side of Barker Lake Road that is in the compartment to the west of this compartment but should be treated at the same time this stand is treated. The stand is influenced by the snowmobile trail. Plant areas that do not regenerate naturally to oak or jack pine to jack pine. 02/08/2006 mm Compartment 221, stand 23 was agreed to be cut (final harvest, but leave red pine and oak for a width of three chains along Barker Lake Road) at the Compartment Preview on 09/07/2006. 09/08/2006 mm										
27	J6	40	83	52	oak	mature	final harvest	2		
comnts Fmd : Good advanced oak regeneration (O3). There should be sufficient oak regeneration to establish the new stand. 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 jack pine. Plant any areas that do not have sufficient natural regeneration to jack pine. The stand is influenced by the snowmobile trail. 02/08/2006 mm										
35	O5	15	90	37	oak	mature	final harvest	2		
comnts Fmd : Good advanced oak regeneration. Protect oak regeneration. 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 th 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 jack pine. 02/08/2006 mm										
36	O5	29	86	55	oak	mature	final harvest	2		
comnts Fmd : There is good advanced oak regeneration. There is a small component of aspen in the stand. The stand will regenerate naturally to oak and aspen. Mark some oak to leave along Barker Lake Road. There are "Keep Out" signs along Barker Lake Road near Camp Baldy. 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 th 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 jack pine. 02/09/2006 mm										

GRAYLING FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 233 Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
44	O6	15	88	50	oak	mature	final harvest	2		
comnts Fmd : Leave some red pine along the snowmobile trail for visual concerns. The stand is influenced by the snowmobile trail. 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 th 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 jack pine. 02/09/2006 mm										
46	J5	8	19	49	jack pine	mature	final harvest	2	planting	
comnts Fmd : Replant to jack pine. The stand is influenced by the snowmobile trail. 02/09/2006 mm										
53	J4	6	37	50	jack pine	mature	final harvest	2	planting	
comnts Fmd : The stand was part of old stand 103 (now 401). Replant to jack pine. 02/09/2006 mm										
56	O5	2	90	37	oak	mature	final harvest	2		
comnts Fmd : Used previous SI. The stand was part of stand 35. This is the part that is west of the pipeline. 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 jack pine. 02/08/2006 mm										
57	J6	10	81	49	jack pine	mature	final harvest	2	planting	
comnts Fmd : This stand was part of stand 22 that is on the west side of Barker Lake Road. This part of the stand was not treated when the other part of the stand was treated in 1999. The stand is along Barker Lake Road for approximately 1/2 mile and is several chains wide. The stand is influenced by the snowmobile trail. Plant areas that do not regenerate naturally to oak with jack pine. 02/08/2006 mm										
58	O6	28	88	47	oak	mature	final harvest	2		
comnts Fmd : Good advanced oak regeneration. The stand will regenerate to oak and other commercial species. Leave red pine along the snowmobile trail for visual concerns. 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 jack pine. 02/08/2006 mm										
63	O5	7	86	55	oak	mature	final harvest	2		
comnts Fmd : There is good advanced oak regeneration. There is a small component of aspen in the stand. The stand will regenerate naturally to oak and aspen. Mark some oak to leave along Barker Lake Road. There are "Keep Out" signs along Barker Lake Road near Camp Baldy. 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 jack pine.02/09/2006 mm										
Total Acres.....		409								

**Proposed Treatments
With Limiting Factors**

Compartment: 233 **Entry Year: 2008**

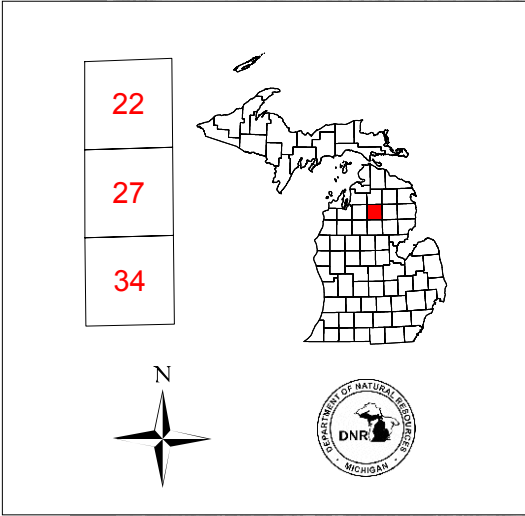
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
--------------	-----------------------	--------------	------------	-----------------------	--------------------	------------------	-----------------------	-----------------------------	--------------------------	----------------------

TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 233
 T26N, R03W, Sec. 22, 27, 34
 County: Crawford
 Unit: Grayling
 YOE: 2008
 Acres: 1,391 GIS Calculated
 Stand Examiner: Mark Monteil
 Map Revised: 10/17/2006
 Map Phase: Pre-Review



Legend

- Miris Corners
- Paved Roads
- - -** Gravel Roads
- - -** Poor Dirt Roads
- - -** Trails
- Snowmobile Trails
- Stand Boundary
- 100 - Final Harvest
- 116 - Final Harvest/Planting
- 400 - Thinning

