

# Compartment Review Presentation Grayling Forest Management Unit

## Compartment #196

**Entry Year:** 2008

**GIS Compartment Acreage:** 1477      **County:** Crawford, Beaver Creek Twp.

**Revision Date:** 10/16/2006

**Stand Examiner:** Craig Farrer

**Legal Description:** T25N R04W Sections 22, 23, 24

**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 compartment has flat to gently rolling terrain and the primary soil type throughout is Grayling sand.

**Ownership Patterns, Development, & Land Use In & Around The Compartment:** There is mostly state ownership with scattered private parcels. Active oil and gas well sites are located west of Military Road in Section 22.

**Unique, Natural Features:** Kirtland's warbler has been documented in section 22. There is the potential for dry prairie plants such as Hill's thistle, rough fescue, Alleghany plum and pale agoseris to occur in grassy openings and open jack pine. There is also the potential for dusted skipper, grizzled skipper, and red-legged spittlebug to be found in grassy openings. Kirtland's warbler and prairie warbler may be found in young jack pine.

**Archeological, Historical, & Cultural Features:** None.

**Special Management Designations or Considerations:** Stands 5, 9, 23 and 29 are to be managed as fuel breaks. There are older pipelines crossing the Jack Pine type in the southwest quarter of section 22.

**Watershed and Fisheries Considerations:** None.

**Wildlife Habitat Considerations:** Maintain and increase the Aspen and Oak cover types for deer, grouse, turkey and squirrel.

**Mineral Resource and Development Concerns / Restrictions:** There is an old sand pit in the SESW of section 23 that is currently being used for target practice. Consider blocking the two-track into the pit and allow nature to continue to restore it. Surface sediments in the compartment consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 600 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 36 and there may be some potential. The compartment is leased for oil and gas and one-half is located in the Beaver Creek Field. The field has produced over 21 MBO from the Devonian Richfield and over 5 Bcf gas from the Ordovician Prairie du Chien.

**Vehicle Access:** The compartment is completely surrounded and also filled with a network of roads, including two tracks, well-maintained county roads, seasonal county roads and a state highway. 7 Mile Road, half paved and half gravel, borders the north side of the compartment. Fletcher Road borders the south side of the compartment. Military Road runs north and south between section 22 and 23. US 127 traverses diagonally north and south along with Old 27 in section 24. A grid of several other roads and two-tracks run along 40 lines.

**Survey Needs:** None needed.

**Recreational Facilities and Opportunities:** Recreational opportunities include hunting, bird watching, blueberry picking, ORV riding and Snowmobiling. The Beaver Creek ORV trail traverses through the south half of section 24 and the Beaver Creek Snowmobile trail runs through section 23 along portions of King Road.

**Fire Protection:** Fire protection falls under the jurisdiction of the Beaver Creek Volunteer Fire Department and the Michigan DNR. The compartment is primarily made up of pine cover types and has oil and gas wells/pipelines distributed east of Military Road which could pose problems during fire suppression. Sour gas is a major concern. Actions taken to reduce these hazards include the creation of several fuel breaks and the establishment of a no-plow zone in the areas of oil and gas wells/ pipelines. The closest water source is the Beaver Creek Volunteer Fire Department.

**Additional Compartment Information:** Some of the Red Pine stands have been proposed for treatment to meet the goals of the Statewide Red Pine Project.

**LOTS Compartment Acreage:** 1481

- **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: 196

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	138																										138
G Grass					12																						12
J Jack Pine							428							21													449
I Local Name								39																			39
X Non Stocked													5														5
O Oak														78													78
R Red Pine															616									6			622
U Upland Brush																							9				9
W White Pine																										125	125
Total	138				12		428	39					5	99		616							9	6		125	1477

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

CRAWFORD COUNTY

COMPARTMENT: 196

**Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS**

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	2927 Cds	Hardwood	361 Cds
Hardwood	352 Mbf	Hardwood	38 Mbf
Softwood	5207 Cds	Softwood	1029 Cds
Softwood	6471 Mbf	Softwood	1539 Mbf
Sum TotVol	21780 Cds	Sum CutVol	4544 Cds
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	
1477		226	

**GRAYLING FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 196 Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
<b>14</b>	<b>J5</b>	19	60	51	jack pine	mature	final harvest	1	planting		
comnts Fmd : Small Jack Pine stand. West side borders Military Road. A5/W2 transitiional zone between Oak stand to North and Jack Pine stand. Recommend final harvest and replant to Jack Pine or Red Pine . Check Kotar, if suitable to Red Pine, plant Red Pine.											
<b>28</b>	<b>R9</b>	6	91	55	northern hardwood	immature	final harvest	1			
comnts Fmd : Small Red Pine stand mixed with Aspen, Oak and Red Maple. Northwest side of stand has more of a component of Aspen. Understory is an M2. South side of stand border snowmobile trail (West Higgins Connector #7). This stand was planted many years ago. Recommend final harvest and allow Aspen and Hardwoods to naturally regenerate the stand. Stand should than next entry year become a new stand or be added to stand 33 to the north.											
<b>35</b>	<b>W9</b>	18	90	44	white pine	old growth (potential or actual)	thinning	1			
comnts Fmd : Mature White Pine stand with an Red Maple sapling understory. Portions of the stand borders King Road (West Higgins Connector Snowmobile trail).											
<b>53</b>	<b>R9</b>	39	91	59	red pine	immature	thinning	1			
comnts Fmd : Red Pine stand. East side borders Old 27. O1 /M1 Understory with some hawthorn. A4 mixed in with some of the stand. Recommend thinning the stand. Remove all Aspen, Oak and 10 BA of Red Pine. Treat with stand 55.											
<b>55</b>	<b>R9</b>	38	90	67	red pine	mature	shelterwood-seed	1	natural regeneration		
comnts Fmd : Mature Red Pine stand. Northwest side borders US 127. East side border Chapman Trail and Private. Stand was thinned before (20-30yrs ago). Recommend a heavy shelterwood (seed) cut. Mark to 90 BA. M2 understory with hawthorn.											
<b>59</b>	<b>R9</b>	24	91	61	red pine	mature	final harvest	1	planting	prescribed for fdf treatment	
comnts Fmd : FDF STAND. Stand thinned in 2001 timbersale# 72-054-00. Average residual 90BA. Recommend final harvest and replant to Red Pine. Harvest the north part of the stand between the snowmobile trail and the two track that runs through the center of the stand. This stand was originally part of stand 24.											
<b>60</b>	<b>R9</b>	46	69	60	red pine	immature	final harvest	1	planting	prescribed for fdf treatment	
comnts Fmd : Stand of Red Pine. Oil and Gas well placed within the stand. Also pipelines were created. Pockets of natural Red Pine regen and scattered Red Pine regen. O1 Understory. Northside of the stand borders 7 Mile Road. Private on the south and west sides of the stand. Stand is visiable from Military Road. Recommend final harvest and replant to Red Pine. Stand was orginally part of stand 7.											
THICKER RED PINE IN NE NE THINNED 1990, FDF stand. Thinned under contract #72-052-99-01 Aspen Pine Block in 2000/2001. About 20 acres in the NENE was thinned to 110 BA.											
<b>Total Acres.....</b>		<b>190</b>									

**GRAYLING FOREST MGT UNIT**

**Proposed Treatments  
With Limiting Factors**

**Compartment: 196**    **Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
<b>23</b>	<b>J6</b>	21	89	49	oak	mature	final harvest	1		

TREATMENT LIMITING FACTORS: Influence zones

comnts Fmd : FUEL BREAK CUT IN 5 YEARS AFTER STD 19 HAS BEEN PLANTED, CONVERT TO OAK. Final harvest, but leave all Oak, Red Pine and White Pine. Visual management is a concern. A residual basal area will be left. Regeneration, will accept a mix of species.

<b>25</b>	<b>R9</b>	15	91	55	red pine	immature	final harvest	1	planting	prescribed for fdf treatment
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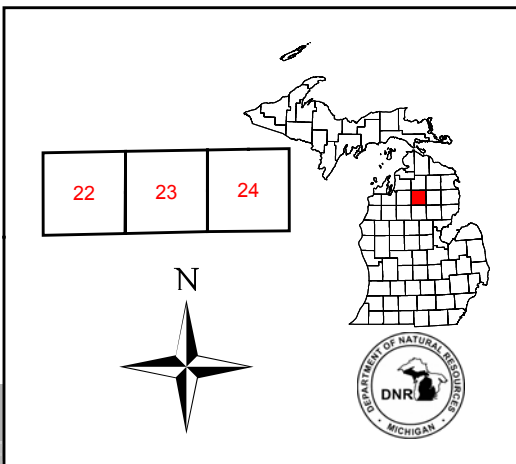
TREATMENT LIMITING FACTORS: Delayed to take advantage of exceptional site quality or growth

comnts Fmd : FDF STAND. POSSIBLE CLEAR CUT NEXT TIME. Stand thinned in 2001 timbersale# 72-054-00. Average residual 90BA. Final harvest and replant to Red Pine

**Total Acres..... 36**

# Field Map

Compartment 196  
 T25N, R4W, Sec. 22, 23, 24  
 County: Crawford  
 Unit: Grayling  
 YOY: 2008  
 Acres: 1,477 GIS Calculated  
 Stand Examiner: Craig Farrer  
 Map Revised: 10/16/2006  
 Map Phase: Pre-review



### Legend

- Miris Corner
- Highway
- County paved road
- County gravel road
- Poor dirt road
- Trails
- Pipeline
- Bridge
- US Highway
- MCCCT Trails
- Snowmobile Trails
- Stand Boundary
- Biodiversity/Old growth area
- 100 - Final harvest
- 116 - Final harvest/Planting
- 346 - Shelterwood-seed/Natural regeneration
- 400 - Thinning

