



**GRAYLING FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 189      ENTRY YEAR: 2009**

**Compartment Acreage: 2,239      County: Crawford**

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**Revision Date: 08/28/2007**

**Stand Examiner: Craig Farrer**

**Legal Description: T25N R04W Sections 7, 18, 19 and 30 Beaver Creek Township**

**Management Goals:** To maintain forest health, productivity, sustainability, species diversification, and structural diversity throughout the compartment while providing for multiple use and visual management. In addition, to maintain a healthy habitat for the endangered species *Dendroica kirtlandii* (Kirtland's Warbler), taking into account warbler management plan directives, species diversity, and visual management. And last, to provide an area for military training.

**Soil and Topography:** Terrain within the compartment is primarily level throughout. Soils within the compartment consist primarily of Grayling Sands.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The compartment is mostly state owned, with a few private 40's mixed in. A part of the National Guard Range 30 Mortar Range is located in Section 7. There is very little development, with the exception of the Beaver Creek Oil/Gas Field.

**Unique, Natural Features (include only non-site specific and non-sensitive information):** Unit 3 of the Fletcher Road Kirtland's Warbler covers a large portion of this compartment.

**Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):** The Fletcher Road Fire burned through a portion of the compartment in the past.

**Special Management Designations or Considerations:** The Kirtland's Warbler Management Plan should be followed for any management within the compartment. Also military and oil/gas is also must be considered in any management of the compartment.

**Watershed and Fisheries Considerations:** None.

**Wildlife Habitat Considerations:** To manage and maintain existing cover types within the compartment and to improve habitat conditions for a wide variety of non-game and game wildlife.

**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 Michigan Formation. The Michigan is quarried for gypsum elsewhere in the State. A gravel pit is located two miles to the west and potential is good on upland areas. Most of the compartment is leased for oil and gas and part of it is 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:** Access to and within the compartment can be obtained by Seven Mile, Fletcher and Corvus County Roads. Several other two tracks and seasonal county roads exist from these three roads into the compartment. Several of these roads (both seasonal and non-seasonal ) are used by oil/gas trucks to inspect and maintain the oil/gas wells that exist within the compartment. Most all roads and trails are passible by two wheel drive vehicle year around.

**Survey Needs:** None.

**Recreational Facilities and Opportunities:** No recreational facilities exist within the compartment. Dispersed recreational opportunities exist throughout the compartment. Hunting and Bird Watching are two of these. The West Higgins ORV Trail runs just south of this compartment.

**Fire Protection:** Fire protection is the responsibility of the Beaver Creek Township Fire Department and the Michigan Department on Natural Resources, within the assist of the Camp Grayling Fire Department (National Guard). This area is a no plow zone due to the oil/gas wells, pipelines and hydrogen sulfide gas. More than three quarters of the compartment is in Jack Pine type for the Kirtland's Warbler, making this area very acceptable to wildfires. A portion of Range 13 exist in the northeast part of the compartment, this two has fires that occasionally escape into the surrounding stands within the compartment. No close water source exists within the compartment.

**LOTS Compartment Acreage:** 2340

**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**



AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

CRAWFORD COUNTY

COMPARTMENT: 189

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	282																										282
G Grass					157																						157
J Jack Pine							1600																				1600
X Non Stocked													20														20
O Oak														89													89
R Red Pine															7												7
U Upland Brush																								55			55
W White Pine																										29	29
Total	282				157		1600						20	89	7									55		29	2239

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

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COMPARTMENT: **189**

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	3673 Cds	Hardwood	771 Cds
Hardwood	437 Mbf	Hardwood	64 Mbf
Softwood	6861 Cds	Softwood	1050 Cds
Softwood	970 Mbf	Softwood	284 Mbf
Sum TotVol	13348 Cds	Sum CutVol	2517 Cds
<b>Total Cmpnt Acres</b>		Acres Proposed For Cut.....	181
2239			

**GRAYLING FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 189 Entry Year: 2009**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
<b>23</b>	<b>A6</b>	51	66	48	aspen (upland)	mature	final harvest	1		
comnts Fmd : Quaking Aspen stand with upland brush for understory (somewhat poor quality) Bracken fern for ground cover. Stand is part of the Fletcher Road Kirtlands Warbler Unit. Recommend final harvest. Stand also has oil and gas operations throughout the stand.										
<b>29</b>	<b>A6</b>	5	81	47	aspen (upland)	mature	final harvest	1		
comnts Fmd : Inventoried as a J5 last time, is an A6 now. Quite a few Jack Pine died out of the stand. Understory is an U2, but has Oak, Aspen and Jack Pine in understory as well. West side of the stand borders Kalkaska Co. Recommend final harvest, but leave a few better quality mature oak for mast. Stand is small, recommend no retention. Regenerate back to Aspen naturally.										
<b>32</b>	<b>J6</b>	116	76	54	jack pine	mature	delayed removal	1		
comnts Fmd : Large Mature Jack Pine stand mixed with some Oak. Oil/gas well sites and operations throughout the stand past and present. Understory consists of O2/U2 and ground cover blueberry and bracken fern. Part of the FLECHER ROAD KW UNIT #5-2 Recommend final harvest and replant to Jack Pine. At pre-review, change harvest method to a delayed removal, cutting everything 5 inches and larger in diameter and accept mix of natural regeneration.										
<b>34</b>	<b>J6</b>	9	64	46	jack pine	mature	final harvest	1	planting	
comnts Fmd : Small mature Jack Pine stand. Part of the Fletcher Road KW Management Unit. Oil/Gas Pipelines. Recommend final harvest with planting back tyo JP byu FMFM.										
<b>Total Acres.....</b>		<b>181</b>								

**Proposed Treatments  
With Limiting Factors**

**Compartment: 189**

**Entry Year: 2009**

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

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**Total Acres..... 0**

# Field Map

Compartment 189  
 T25N, R4W, Sec. 7, 18, 19, 30  
 County: Crawford  
 Unit: Grayling  
 YOY: 2009  
 Acres: 2,239 GIS Calculated  
 Stand Examiner: Craig Farrer  
 Map Revised: 8/28/2007  
 Map Phase: Pre-Review

**Legend**

- RLS Corners
- Miris Corners
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Pipelines
- Powerlines
- Range Fence
- Oil Wells
- Stand Boundaries
- 100 - Final Harvest
- 116 - Final Harvest/Planting
- 600 - Delayed Removal

07  
 18  
 19  
 30

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