



## GRAYLING FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 275 ENTRY YEAR: 2008

GIS Compartment Acreage: 1289 County: Crawford (Lovell's Township)

---

**Revision Date:** 7/5/2006

**Stand Examiner:** Lucas Merrick

**Legal Description:** T27N R01W, Sections 4, 9, 10, 15

**Management Goals:** To maintain forest health, productivity, sustainability, and structural diversity by actively managing flora and fauna, while providing for multiple use and visual management. This compartment is a dedicated *Dendroica kirtlandii* (Kirtland's warbler) management area. The area is to be managed to provide a healthy and sustainable habitat for the endangered Kirtland's warbler, in accordance with Wildlife Division management plans where applicable.

**Soils and Topography:** Primarily flat sandy outwash plains with depressions and drainage ways. Soils consist mostly of Grayling sands which are excessively drained with rapid permeability.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The majority of Lovell's Township is in State ownership. The private holdings, consisting of various sizes, occur mostly along the several waterways. The lands west of this compartment are actively used by the National Guard for training operations.

**Unique, Natural Features:** The North Branch of the Au Sable River, a designated trout stream and "Natural River," is found in this compartment. The Federally Endangered Kirtland's warbler may be found in the compartment or surrounding area.

**Special Management Designations or Considerations:** Compartment 275 is a Kirtland's Warbler Management Area. These areas are designated High Conservation Value Areas (HCVA's). The North Branch of the Au Sable River is a designated "Natural River". Natural Rivers and the adjacent stands within 400' on each side of the river are also HCVA's. These river areas also serve as deer yards which are Special Conservation Areas (SCA's).

**Watershed and Fisheries Considerations:** The North Branch of the Au Sable is a designated trout stream. Any management for aspen near the stream riparian zone should be minimized to discourage beaver damming. All activities should follow Natural River setbacks.

**Wildlife Habitat Considerations:** Kirtland's warbler and prairie warbler could occur in the young jack pine. Along the Au Sable, there may be eagles, osprey, and great blue heron rookeries. There is potential for dusted skipper, grizzled skipper, and red-legged spittle bug to occur in grassy openings. Secretive locust may occur in bog habitat and surrounding uplands. Blanding's turtle, wood turtle, and massasauga rattle snake have potential to be found along the drainage ways.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments 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 Coldwater Shale. The Coldwater does not have a current economic use. A gravel pit is located in Section 9 and there should be potential. This area is not currently leased for oil and gas. The nearest production is Conners Marsh Field just to the south. The field has produced over 20 Bcf gas from the Ordovician Prairie du Chien.

**Vehicle Access:** The compartment is easily accessible using the many County roads and two-track forest roads which encompass the area. The majority of forest roads are drivable by two-wheel drive vehicles. Use and access to certain areas within the Kirtland's Warbler Habitat is restricted during nesting season.

**Survey Needs:** None at this time.

**Recreational Facilities and Opportunities:** Many recreational opportunities present themselves within the compartment and throughout the area. Examples are camping, canoeing, fishing, hiking, animal watching, hunting, and snowmobiling. Dispersed recreational use is evident throughout the compartment.

**Fire Protection:** This compartment has the potential for extreme fire events. The North Branch of the Au Sable River and the West Branch of Big Creek provide natural fire breaks east and west of the compartment. These would also be sufficient water sources for suppression needs. The area has sufficient access for equipment which will be able to use the county roads and forest two-tracks.

**Additional Compartment Information:** None.

**LOTS Compartment Acreage:** 1303

- **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 biodiversity/old growth**

10/23/2006 2:58:39 PM

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

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

CRAWFORD COUNTY

COMPARTMENT: 275

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not Coded	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159	All Aged	Total
Aspen						43													43
Cedar												17	27						44
Jack Pine				615	48	47	380												1090
LowInd Brush	2																		2
LowInd Poplr				3															3
Mx Swmp Cnfr									21				23						44
Oak								10											10
Red Pine								6					14						20
Spruce Fir				3		5			3										11
Upland Brush				14															14
Water	8																		8
<b>Total</b>	<b>10</b>			<b>635</b>	<b>48</b>	<b>95</b>	<b>380</b>	<b>16</b>	<b>24</b>			<b>17</b>	<b>64</b>						<b>1289</b>

10/23/2006 2:58:43 PM

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

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

CRAWFORD COUNTY

COMPARTMENT: 275

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	43																										43
C Cedar				44																							44
J Jack Pine							1090																				1090
L Lowlnd Brush									2																		2
P Lowlnd Poplr										3																	3
Q Mx Swmp Cnfr												44															44
O Oak														10													10
R Red Pine																20											20
F Spruce Fir																				11							11
U Upland Brush																								14			14
Z Water																									8		8
<b>Total</b>	<b>43</b>			<b>44</b>			<b>1090</b>		<b>2</b>	<b>3</b>		<b>44</b>		<b>10</b>		<b>20</b>			<b>11</b>				<b>14</b>		<b>8</b>	<b>1289</b>	

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

CRAWFORD COUNTY

COMPARTMENT: **275**

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	927 Cds	Hardwood	307 Cds
Hardwood	27 Mbf	Hardwood	19 Mbf
Softwood	6552 Cds	Sum CutVol	345 Cds
Softwood	911 Mbf		
Sum TotVol	9355 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	
1289		16	

**GRAYLING FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 275**    **Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
18	A6	16	43	58	aspen (upland)	immature	final harvest	3		

comnts Fmd : old RR grade is the N/E Boundary. Stand is at it biomass peak. A cut will help keep the aspen vigorous and will provide food for deer along the river. South east of stand has a heavy fir understory which has impeded the aspen growth in the area. Because of this the aspen in this area is of lesser quality. Did not separate stands because I would like to treat both areas. Use all BMP's when setting up sale. Keep an eye out for raptor nests. I would recommend buffering the ridge which leads down to the flood plain. Did not notice any beaver activity. Cut should yield a moderate to well stocked aspen stand with scattered conifer. Aspen is the management objective but will accept a fully stocked naturally regenerated stand consisting of aspen, oak, maple, and mixed conifers. If stand fails to meet regeneration standards it will be planted to a white/red pine mix. (old comments) ADVANCED A3 REGEN- BARELY MERCHANTABLE,HOLD

**Total Acres..... 16**

**Proposed Treatments  
With Limiting Factors**

**Compartment: 275**    **Entry Year: 2008**

---

<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>FDF Status</b>
--------------	-----------------------	--------------	------------	-----------------------	--------------------	------------------	-----------------------	-----------------------------	--------------------------	-----------------------

---

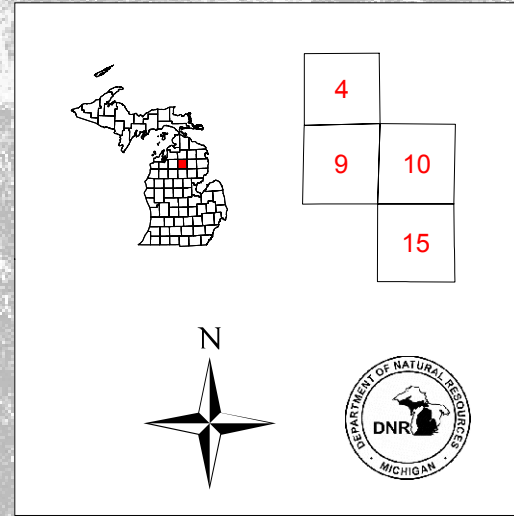
TREATMENT LIMITING FACTORS:

---

Total Acres..... 0

# Field Map

Compartment 275  
 T27N, R01W, Sec. 4, 9, 10, 15  
 County: Crawford  
 Unit: Grayling  
 YOE: 2008  
 Acres: 1289 GIS Calculated  
 Stand Examiner: Lucas Merrick  
 Map Revised: 10/17/2008  
 Map Phase: Pre-review



## Legend

- Miris Corners
- Paved Roads
- - -** Gravel Roads
- - -** Poor Dirt Roads
- Stand Boundary
- ▨** Biodiversity/Old Growth Area
- ▨** 100 - Final Harvest

