



## GRAYLING FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 71 ENTRY YEAR: 2009

GIS Compartment Acreage: 810 County: Iosco

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**Revision Date:** September 4, 2007

**Stand Examiners:** Joan Charlebois and Patrick Potter (Section 12)

**Legal Description:** T24N R8E Sections 12, 13, 24 & 25 East Central Oscoda Township

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

**Soils and Topography:** The compartment's west border grades down into the Seven Mile Hill Swamp. This transition zone is typified by deep peat and muck soils with a shallow depth to the water table and tip-up mound terrain. On the higher ground to the east, the terrain is level with Croswell and Au Gres sands and loams.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The compartment has a mix of state and private property interface. A 52-acre parcel was conveyed to Oscoda Township in 2005. This former Wurtsmith Air Force Base gun range is in process of being further developed to expand shooting opportunities.

**Unique, Natural Features:** The compartment's proximity to the Seven Mile Hill Swamp, and the transition zone gradient of habitats it contains, enable it to support a range of lowland and upland plant and animal communities. There is the potential to encounter Eastern Massasauga rattlesnake, Blanding's turtle, goshawk, eagle, Kirtland's warbler, prairie warbler, secretive locust, calypso orchid, ram's head orchid, and limestone oak fern.

**Archeological, Historical, and Cultural Features:** There is evidence of past disturbance as a result of the area's former Military use.

**Special Management Designations or Considerations:** The compartment has been proposed for inclusion in the Eastern Massasauga Rattlesnake Candidate Conservation Agreement with Assurances (CCA) program, administered by the U.S. Fish & Wildlife Service. The program's goal is to identify, conserve and enhance critical habitat in order to reverse the rattlesnake's declining population trend.

**Watershed and Fisheries Considerations:** The compartment's primary hydrologic influence is the Seven Mile Hill Swamp. Several small drains originate in the swamp, converge and eventually flow into Van Etten Lake.

**Wildlife Habitat Considerations:** The compartment's wide range of cover types – from lowland conifer swamp to upland aspen, oak and pine – provide habitat for game species such as deer, grouse and turkey, and also have the potential to support a variety of rare bird, reptile and insect species.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of lacustrine (lake) sand and gravel and fine-textured glacial till. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift is the Coldwater Shale. There is not a current economic use for the Coldwater Shale. Gravel pits are not located in this area, and potential appears to be limited. This Compartment is not currently leased for oil and gas development.

**Vehicle Access:** Access to the compartment's southern third is good on existing roads, although some berms would need to be removed. The rest of the compartment has limited vehicle access due to low terrain and a lack of stream crossings.

**Survey Needs:** The compartment's northeast corner will require a survey. Several houses in an adjacent subdivision appear to have yard trespasses in this area.

**Recreational Facilities and Opportunities:** Hunting appears to be the primary form of dispersed recreational use. A designated snowmobile trail, segment #960, runs through the south half of the compartment.

**Fire Protection:** The compartment's south half contains most of the dry upland oak and pine cover type acreage. Access is good within this area for fire suppression equipment.

**Additional Compartment Information:** Several groundwater monitoring operations have been permitted in sections 24 and 25 resultant of adjacent Wurtsmith AFB operations.

**LOTS Compartment Acreage:** \_\_840\_\_\_\_\_

- **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

IOSCO COUNTY

COMPARTMENT: 71

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		25	31		6	25													87
Bog or Marsh	1																		1
Cedar														18					18
Jack Pine			5		77					19									101
Lowlnd Brush	19																		19
Oak		160								119	18								297
Red Pine										23									23
Swamp Hrdwds					32					24									56
Tamarack											66								66
Upland Hdwds			25				13												38
White Pine					50						54								104
<b>Total</b>	<b>20</b>	<b>185</b>	<b>61</b>		<b>165</b>	<b>25</b>	<b>13</b>			<b>185</b>	<b>138</b>			<b>18</b>					<b>810</b>

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

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

IOSCO COUNTY

COMPARTMENT: 71

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	87																										87
V Bog or Marsh			1																								1
C Cedar				18																							18
J Jack Pine							101																				101
L Lowlnd Brush									19																		19
O Oak	3													294													297
R Red Pine																23											23
E Swamp Hrdwds																				56							56
T Tamarack																					66						66
M Upland Hdwds																								38			38
W White Pine																										104	104
<b>Total</b>	90		1	18			101		19					294		23				56	66			38		104	810

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

IOSCO COUNTY

COMPARTMENT: 71

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	1628 Cds	Hardwood	173 Cds
Hardwood	611 Mbf	Hardwood	275 Mbf
Softwood	1777 Cds	Softwood	48 Mbf
Softwood	1106 Mbf	Sum CutVol	819 Cds
Sum TotVol	6839 Cds		
<b>Total Cmpnt Acres</b>		Acres Proposed For Cut.....	
810		90	

**GRAYLING FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 71**

**Entry Year: 2009**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
3	O9	18	91	58	oak	mature	selection	2		
<p>comnts Fmd : Pat P.: Mixed stand of oak, red maple and aspen, bordering a subdivision. Nice red oak west of the subdivision. A3 along the south edge. Harvest half of the red oak and red maple. Harvest all aspen and expand the aspen clones. Leave all white pine and white oak. Several of the subdivision yards appear to be in trespass. There is an illegal ORV trail originating from the subdivision also. Used the previous SI.</p>										
21	O9	72	84	48	oak	two aged	delayed removal	1		
<p>comnts Fmd : Mature to overmature NPO, JP &amp; BTA saw with exceptional oak regen in the form of 10-30' tall saplings, ranging from O0-O3 and averaging O2. There are also very good vigor young oak poles. Regen is best in areas where soil had been disturbed in the past, probably as a result of military activities. Stand also has ~10 BA of scattered WP &amp; RP, and less than 10 BA of RM &amp; cherry. Release the oak understory and conserve the young oak poles by removing all NPO 10" DBH and up, all JP &amp; RM saw, and all merchantable aspen. Leave all WO, WP, RP &amp; cherry. Success of the release will depend entirely upon the harvesting equipment operators' avoiding damage to the regen as much as is practicable. Add spec to have operator cut any oak saplings that are bent/broken by operations (such stems sprouted well in the adjacent recently cut stands). Tree-length skidding these large-crowned oak may be a concern; evaluate during tsale prep. Can't stress enough to the operators the importance of protecting the regen. Snowmobile trail runs the length of the stand. Used previous SI. Follow CCA guidelines/restrictions for the massasauga with harvest/</p>										

**Total Acres..... 90**

**Proposed Treatments  
With Limiting Factors**

**Compartment: 71**

**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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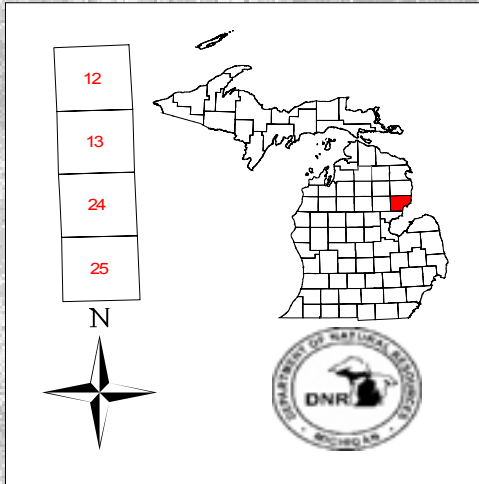
TREATMENT LIMITING FACTORS:

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

# Field Map

Compartment 71  
 T24N, R8E, Sec. 12, 13, 24, 25  
 County: Iosco  
 Unit: Grayling  
 YOE: 2009  
 Acres: 810 GIS Calculated  
 Stand Examiner: Joan Charlebois  
 Patrick Potter  
 Map Revised: 8/28/2007  
 Map Phase: Pre-review



## Legend

- ◆ RLS Corners
- Miris Corners
- County Paved Roads
- - - County Gravel Roads
- - - Gravel Roads
- - - Poor Dirt Roads
- - - Trails
- Water Features
- Snowmobile Trails
- X Gates
- X Berms
- 🏠 Residential Homes
- Stand Boundries
- 600 - Delayed Removal
- 800 - Selection

