



**GRAYLING FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW RESENTATION**

COMPARTMENT # 272 ENTRY YEAR: 2008

GIS Compartment Acreage: 2310 County: Crawford

Revision Date: October 9, 2006

Stand Examiner: Joan Charlebois

Legal Description: T28N R1W Sections 13, 14, 15, 17, 20

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.

Soils and Topography: The terrain is flat to gently rolling on predominantly Grayling sand, with organic soils adjacent to wetlands and the Middle Branch of Big Creek. East of the Creek, there is also Croswell-AuGres, Croswell, Kinross-AuGres and Kellogg sands.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The ownership is nearly solid State, with two blocks of private and an eighty of USF&WS property.

Unique, Natural Features (include only non-site specific and non-sensitive information): Kirtland's warbler has been found throughout the compartment, as well as Eagle in Section 13. In addition, there is the potential for massasauga rattlesnake, Blanding's turtle, and wood turtle along the Middle Branch Big Creek; eagle, osprey, and great blue heron rookeries; secretive locust in bogs; dry prairie plants and dusted skipper, grizzled skipper and red-legged spittlebug in grassy openings and open jack pine stands.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): None known.

Special Management Designations or Considerations: The compartment is part of the Lovells Kirtland's Warbler (KW) Management Block #52.

Watershed and Fisheries Considerations: The Middle Branch of Big Creek is part of the AuSable's Natural River designation.

Wildlife Habitat Considerations: While the primary focus is on maintaining habitat for the endangered Kirtland's Warbler, a variety of other game and non-game species benefit from the compartment's jack pine cover.

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 400 and 600 feet. Beneath the glacial drift is the Coldwater Shale. The Coldwater does not have a current economic use. There are not any gravel pits in the area, but there should be some potential. The compartment is mostly leased for oil and gas development of the Antrim Shale.

Vehicle Access: County roads within the compartment include CR 612, F-97, Walsh Road, Chiefs Trail and County Line Trail. There is also a network of forest roads, but access is limited within the large planted jack pine blocks.

Survey Needs: None.

Recreational Facilities and Opportunities: The compartment is crossed by the Grayling-to-Lovells Loop and Roll Trail Loop snowmobile trails, the Midland-to-Mackinac Hiking Trail and the Shore-to-Shore Riding/Hiking Trail.

Fire Protection: The compartment contains large contiguous blocks of densely-stocked jack pine. The bridge across the Creek on Chiefs Trail is a water source within the compartment.

LOTS Compartment Acreage: _____2360_____

- **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: 272

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	147																										147
V Bog or Marsh			50																								50
G Grass					6																						6
J Jack Pine							1764																				1764
L Lowlnd Brush									110																		110
Q Mx Swmp Cnfr												136															136
X Non Stocked													11														11
O Oak														21													21
R Red Pine																4											4
U Upland Brush																								50			50
Z Water																									4		4
W White Pine																										7	7
Total	147		50		6		1764		110			136	11	21		4								50	4	7	2310

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

CRAWFORD COUNTY

COMPARTMENT: **272**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	1092 Cds	Hardwood	388 Cds
Hardwood	92 Mbf	Softwood	2140 Cds
Softwood	4902 Cds	Softwood	163 Mbf
Softwood	487 Mbf	Sum CutVol	2854 Cds
Sum TotVol	7152 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	252
2310			

GRAYLING FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 272 **Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
20	J5	194	53	37	jack pine	old growth (potential or actual)	final harvest	1	planting	
<p>comnts Fmd : Notes on old map indicate this area was "cut over in 1964". Wide range of age & size classes, with a majority of the area in small poles/lg saps with low density mature poles, along with islands that apparently were passed over in '64 that have 70-80 year JP poles. Those uncut islands (including former stands 30 & 31) were lumped into this stand since the entire NW quarter of Section 15 is pre-determined for KW harvest. Stand year of origin based on weighted average between 1964 origin regen & the older stems uncut in '64. Is part of KW mgt block #52, to be planted in 2015, with delay in harvesting to 2012 so that it can be cut with parts of block #52 in Compt 291 to the north.</p>										
21	J1	9	15	37	jack pine	old growth (potential or actual)	final harvest	1	planting	
<p>comnts Fmd : Appears to have plow-line around it - burnt area? Looks to have been salvaged, w/ scattered RP saw & poles & JP poles with 2 ages of regen (in lg & sm saps) that is clumpy in distribution, w/ a mosaic of J3 patches & U/G, averaging to J1 overall. No records except '87 photos are pre-fire and '98's are post-fire. Was gone in '96 when last inventoried. Guess year of origin at 1991. Used stand 20's SI. Part of KW mgt block #52, to be planted in 2015, with harvest delayed to 2012 so that it can be cut with parts of block #52 in Compt 291 to the north.</p>										
22	J5	49	72	44	jack pine	old growth (potential or actual)	final harvest	1	planting	
<p>comnts Fmd : 3 ages of JP: overmature saw & lg poles w/ individual stem mortality over small poles/lg saplings & seedlings. Advanced oak regen 00-03, 5-20' tall. Scattered NPO & RP saw & poles. Part of KW mgt block #52, to be planted in 2015, with delay in harvesting to 2012 so that it can be cut with parts of block #52 in Compt 291 to the north.</p>										
402	G0	1			grass	nonstocked		0	opening maintenance	
<p>comnts Fmd : Grass, spotted knapweed on cleared well pad. Little to no piping on site -- inactive or in process of being decommissioned? WLD: will do opening maintenance (cut brush & mow) via FTP.</p>										
403	G0	1			grass	nonstocked		0	opening maintenance	
<p>comnts Fmd : Grass, spotted knapweed on cleared well pad. Little to no piping on site -- inactive or in process of being decommissioned? WLD: will do opening maintenance (cut brush & mow) via FTP.</p>										
Total Acres.....		254								

**Proposed Treatments
With Limiting Factors**

Compartment: 272 **Entry Year: 2008**

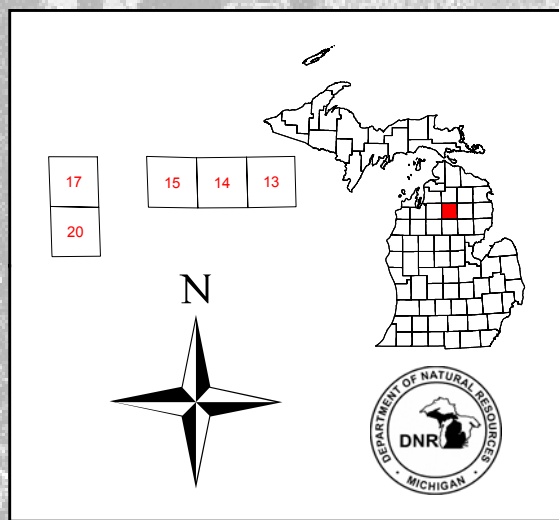
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 272
 T28N, R01W, Sec. 13-15, 17, 20
 County: Crawford
 Unit: Grayling
 YOY: 2008
 Acres: 2310 GIS Calculated
 Stand Examiner: Joan Charlebois
 Map Revised: 10/16/2006
 Map Phase: Pre-review



- Legend**
- ◆ RLS Corners
 - Miris Corners
 - Paved Roads
 - County Gravel Roads
 - Gravel Roads
 - Poor Dirt Roads
 - Trails
 - Rivers
 - Power Lines
 - Pipelines
 - Bridges
 - Hiking Trails
 - Horse Trails
 - Snowmobile Trails
 - Stand Boundary
 - Biodiversity/Old growth area
 - 026 - Opening Maintenance
 - 116 - Final Harvest/Planting

