



## GRAYLING FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 06 ENTRY YEAR: 2009

Compartment Acreage: 2,094 County: Oscoda

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Revision Date: 3/19/07

Stand Examiner: Patrick Cotant

**Legal Description:** T27N R01E Sections 5, 6, 7 & 8 South Greenwood Township  
T28N R01E Sections 31 & 32 North Greenwood Township

**Management Goals:** To maintain species diversity while also addressing sustainability, forest health, productivity, wildlife requirements, aesthetics, best management practices and recreational opportunities throughout the compartment.

**Soil and Topography:** Topography in this compartment is flat to slightly rolling. Some steeper terrain exists in the southern edges of the compartment however this is limited to the banks leading down to the East Branch of Big Creek. In terms of land forms present, this compartment consists mainly of upland flats, stream terraces and drainage ways in the northeast and southwest portions of the compartment. The major soil complex present in this area is Grayling sand with small areas of Croswell-AuGres sands present on ridges within the swamps in the area. This association is found primarily on upland flats and low knolls which are dominated by Kirtland Warbler plantations in this area. This soil complex is characterized as being excessively drained with major management concerns including equipment limitation and seedling mortality. Windthrow is also a concern throughout this soil type complex. The bottomlands of this compartment are made up mainly of Tawas-Lupton Muck and Leafriver Muck associations. These soil complexes are characterized as being poorly drained and are usually associated with a water course or water body. Major management concerns in these areas include equipment limitation, windthrow and seedling mortality.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The majority of this compartment is contiguous state land with some small blocks of private interspersed throughout. There is also approximately 350 acres of USFWS land at the western edge of this compartment along with two 40 acres parcels, one in section 31 and the other being in section 5. Recreation is quite popular in this area as there is a snowmobile trail that transects the compartment and then heads in a northerly direction through the center of section 31. This compartment is also a Kirtland Warbler management area and therefore experiences a fair amount of wildlife viewing throughout the year. Restrictions regulate activity within the particular stands designated as Kirtland Warbler habitat at different times of the year.

**Unique, Natural Features (include only non-site specific and non-sensitive information):** The East Branch of Big Creek lies in the southern portion of this compartment and runs from east to west. The creek is small as it travels through sections 5, 7 & 8 ranging in width from 3-12'. Massasauga Rattlesnake have been observed within section 5.

**Special Management Designations or Considerations:** This compartment is part of the Kirtland Warbler Wildlife habitat Management Program. There is potential for dry prairie plants in grassy openings to include pine barren's species of Hill's Thistle, rough fescue, Alleghany plum, and pale agoseris. There also is potential for pine barren's associated species of dusted skipper, grizzled skipper, and red legged spittlebug in these openings. Prairie warbler, Secretive locust, along with Kirtland Warbler may be found in young jack pine. There is potential for massasauga rattler, wood turtle, and Loon along riparian zones. Bald Eagle has been documented to the north.

**Watershed and Fisheries Considerations:** The East Branch of Big Creek is a tributary of Big Creek and eventually the AuSable River. This stream supports small populations of trout as well as other small panfish.

**Wildlife Habitat Considerations:** A great deal of wildlife utilizes all areas of this compartment. Obviously, the major consideration hinges on the Kirtland Warbler management area, however much wildlife were observed while conducting field work in this area and should be considered throughout management of this compartment.

**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 Coldwater Shale. There is not a current economic use for the Coldwater Shale. Gravel pits are located three miles to the southwest and potential is good on the uplands. Section 32 is leased for oil and gas development. One well site exists in this compartment. It is located in the NW ¼ of section 8. Mineral development is limited because of Kirtland Warbler Management activities.

**Vehicle Access:** Access to this compartment is fair, depending on seasonal restrictions, mainly snow depth. The snowmobile trail is passable with four-wheel drive vehicles during the winter months and the remaining 2-tracks can be used throughout the rest of the year. Farrington Rd. is passable throughout the year however it provides limited access to trails heading in a southerly direction. The pipeline that runs generally N/S also provides good access.

**Survey Needs:** Survey information available for this compartment is good. There are many corners established at section edges as well as where state owned land meets USFWS.

**Recreational Facilities and Opportunities:** The compartment contains designated Snowmobile Trail #14. The Snowmobile trail is used heavily throughout the winter months. Wildlife viewing and hunting are also pursued throughout this region. The Midland to Mackinac Hiking Trail is located ½ mile west of the compartment.

**Fire Protection:** Jack pine is the dominant species within this compartment and therefore fire activity is a concern.

**Additional Compartment Information:** former LOTS acreage: 2100

- **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

OSCODA COUNTY

COMPARTMENT: 6

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			40		98	29			21									51	239
Cedar												9							9
Jack Pine		9	1012		347	50					5								1423
Marsh	31																		31
Mx Swmp Cnfr												21	152						173
Non Stocked	17																		17
Oak										12									12
Red Pine					18														18
Swamp Hrdwds										157									157
Water	15																		15
<b>Total</b>	<b>63</b>	<b>9</b>	<b>1052</b>		<b>463</b>	<b>79</b>			<b>21</b>	<b>169</b>	<b>5</b>	<b>30</b>	<b>152</b>					<b>51</b>	<b>2094</b>

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

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

OSCODA COUNTY

COMPARTMENT: 6

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	239																										239
C Cedar				9																							9
J Jack Pine							1423																				1423
N Marsh											31																31
Q Mx Swmp Cnfr												173															173
X Non Stocked													17														17
O Oak														12													12
R Red Pine																18											18
E Swamp Hrdwds																				157							157
Z Water																									15		15
Total	239			9			1423				31	173	17	12		18				157					15		2094

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

OSCODA COUNTY

COMPARTMENT: 6

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	4082 Cds	Hardwood	209 Cds
Hardwood	10 Mbf	Sum CutVol	209 Cds
Softwood	4037 Cds		
Softwood	168 Mbf		
Sum TotVol	8475 Cds		
<b>Total Cmpnt Acres</b>		Acres Proposed For Cut.....	15
2094			

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 6**

**Entry Year: 2009**

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

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
40	A6	9	42	48	aspen (upland)	immature	final harvest	2		

TREATMENT LIMITING FACTORS: Adjacent landowner denies access

comnts Fmd : Somewhat of a low quality aspen stand. Prescribed to final harvest leaving conifer component in tact. This will result in a mixture with trembling aspen being the dominant species by far following sprout establishment. Pine component of balsam fir and white pine should add to diversity while also making the stand more attractive to wildlife. Stand boundary should follow stand lines, however some areas of adjacent stand to the east should be included by making boundary line irregular. This is per wildlife request. When doing so, avoid any areas that are excessively wet and attempt to include areas where aspen continues to be a significant component of adjacent stand. This stand should be treated with stand 41 which is essentially the same stand, separated by the gas pipeline. Access should be from the north only. Per pre-review, we need t go in after harvest and wildlife will create horizontal cover on the edge yb knocking down sale boundary trees. If we cannot gain access, then allow wildlife to go in an d cut stand manually. No retention is to be maintained in treatment except leaving a few supercanopy red pine. Add warbler timing restriction on the harvest.

41	A6	6	42	48	aspen (upland)	immature	final harvest	2		
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TREATMENT LIMITING FACTORS: Adjacent landowner denies access


comnts Fmd : This stand should be treated with stand 40. The stands are very similar in species composition and makeup, the major difference being that the size of this stand is on average slightly larger. Again, pine component should be left where possible and areas of adjacent stand to the south should be entered per wildlife reqest. Do this by making boundary line irregular in shape, dipping into stand 42 where merchatable trees are present and avoiding excessively wet areas. Both stand contain some large red and white pine and these should be left for diversity. Per pre-review, we need t go in after harvest and wildlife will create horizontal cover on the edge yb knocking down sale boundary trees. If we cannot gain access, then allow wildlife to go in an d cut stand manually. No retention is to be maintained in treatment except leaving a few supercanopy red pine. Add warbler timing restriction on the harvest.

**Total Acres..... 15**



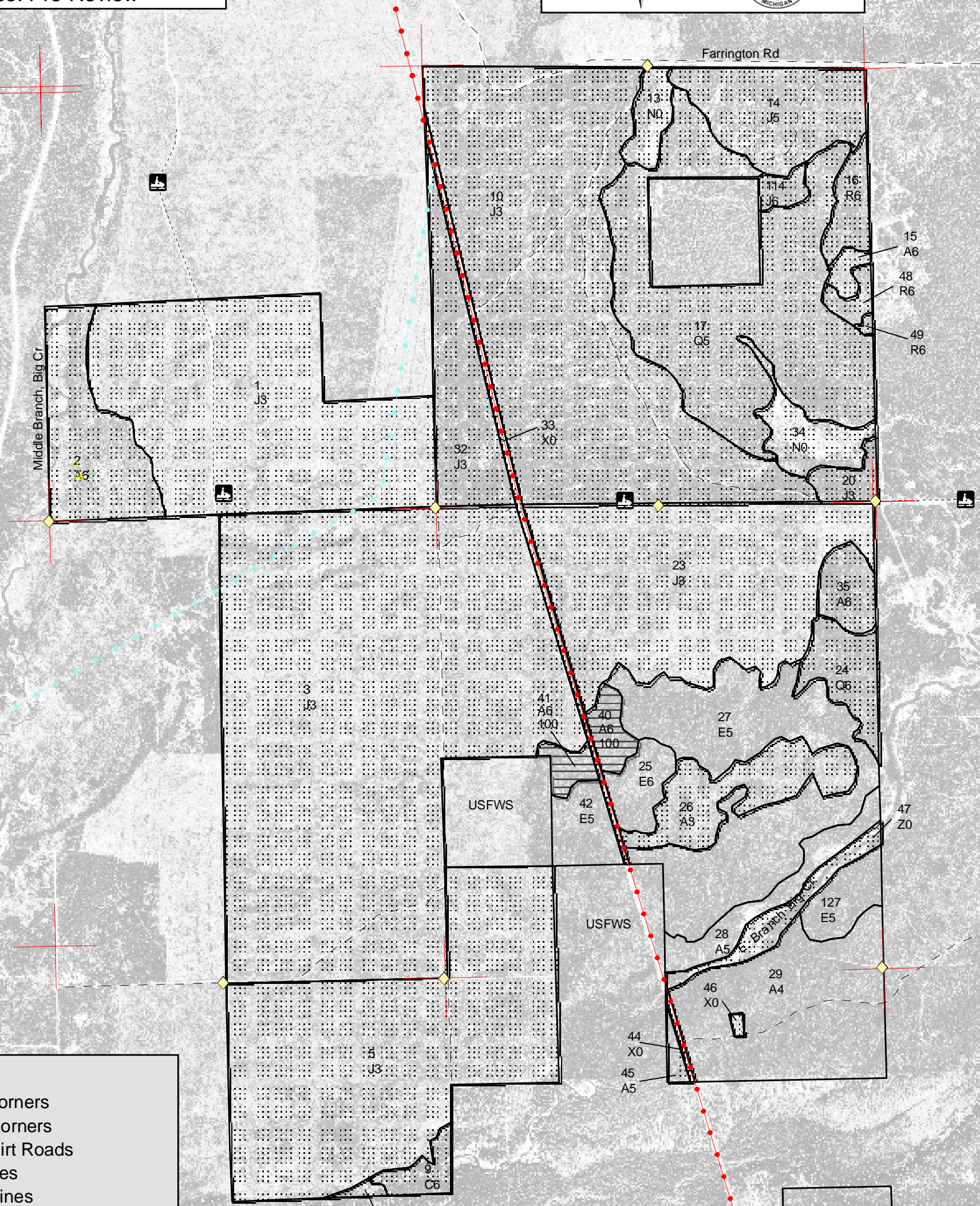
Compartment 06  
 T28N, R1E, Sec. 31, 32  
 T27N, R1E, Sec. 5-8  
 County: Oscoda  
 Unit: Grayling  
 YOE: 2009  
 Acres: 2,094 GIS Calculated  
 Stand Examiner: Patrick Cotant  
 Map Revised: 8/16/2007  
 Map Phase: Pre-Review

# Field Map











31	32
6	5
7	8



N

**Legend**

-  RLS Corners
-  Miris Corners
-  Poor Dirt Roads
-  Pipelines
-  Powerlines
-  Trails
-  Snowmobile Trails
-  Stand Boundary
-  Special Conservation Areas
-  100 - Final Harvest

