

# Compartment Review Presentation Grayling Forest Management Unit

## Compartment #14

**Entry Year:** 2008

**GIS Compartment Acres:** 1951    **County:** Oscoda, Clinton Twp.

**Revision Date:** 10/16/2006

**Stand Examiner:** Craig Farrer

**Legal Description:** T28N R03E, Sections 29, 30, 31, 32

**Management Goals:** To maintain species and structural diversity while managing for health, productivity, and sustainability throughout the compartment. To provide multiple use opportunities and incorporate any visual management needed to optimize these uses.

**Soils and Topography:** Topography within the compartment is gently rolling to hilly, with the exception of a deep ravine running east and west through the northern half of the compartment. Soil types within the compartment consist primarily of Emmet and Roselawn sands and sandy loam.

**Ownership Patterns, Development, & Land Use In & Around The Compartment:** The compartment is largely state owned, with one large private ownership and residence in the center of the compartment and a private 80 in section 31. Several smaller seasonal parcels border the compartment in the west half of section 30. The private 80 in section 31 and the several seasonal parcels in section 30 are use primarily for hunting.

**Unique, Natural Features:** There is the potential for dry prairie plants such as Hill's thistle, rough fescue, Alleghany plum and pale agoseris to occur in grassy openings. There is also the potential for occurrences of dusted skipper, grizzled skipper, and red-legged spittlebug in grassy openings, for goshawk and red-shouldered hawk, and for secretive locust in bog habitat.

**Archeological, Historical, & Cultural features:** None

**Special Management Designations or Considerations:** None

**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 / Restrictions:** Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift is the Coldwater Shale. There is not a current economic use for the Coldwater Shale. Gravel pits are located just to the NW and SE and potential appears to be good. This compartment is completely leased and half-developed for Antrim Shale.

**Vehicle Access:** Access to the compartment is from Mt Tom, Bailey and Cedar Run County Roads. Several two-tracks lead into the compartment from these county roads, however, some of these two-tracks cross private ownerships before reaching state land and are blocked by gates.

**Survey needs:** None

**Recreational Facilities and Opportunities:** No recreational facilities exist within the compartment. The Mio ORV Loop traverses through a portion of every section in the compartment and a small portion of ORV Route traverses through the southwest corner of section of 31. Recreational opportunities within this compartment, in addition to ORV riding, include hunting, hiking, mushrooming, camping, bird watching and berry picking.

**Fire Protection:** Fire suppression within this compartment falls under the jurisdiction of the Comins/Fairview Volunteer Fire Departments and the Michigan Department of Natural Resources. Cover types within the compartment consist of most Aspen, Hardwoods and Oak stands that pose little or no serious fire concern. Topography and Oil/Gas operations within the north portion of the compartment may be of some concern in fire suppression efforts. No water sources exist within the compartment. There are a few small lakes southeast of the compartment that provide the closest source of water for firefighting efforts.

**Additional Compartment Information:** State land in the far west portion of Section 30 was removed from this compartment and placed in Compartment 29 (the Frost Pocket) to the west. Some of this transferred land includes maintained wildlife openings. A land acquisition form has been filed concerning the Frundel Properties (the trespass is still unresolved). A Resource Damage Report has been filed on the ORV damage to the power line and hill in Section 29.

**LOTS Compartment Acreage:** To be determined after Compartment 29's new boundary is finalized.

- **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: 14

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		73	360	175	88	254	15			66								20	1051	
Grass	16																			16
Jack Pine					23	17														40
Mx Swmp Cnfr										9										9
Oak										160	280									440
Red Pine							16			9	62								58	145
Upland Brush	11																			11
Upland Hdwds					108					84									47	239
<b>Total</b>	<b>27</b>	<b>73</b>	<b>360</b>	<b>175</b>	<b>219</b>	<b>271</b>	<b>31</b>			<b>328</b>	<b>342</b>								<b>125</b>	<b>1951</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: 14

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	1031																										20	1051
G Grass					16																							16
J Jack Pine	17						23																					40
Q Mx Swmp Cnfr												9																9
O Oak														440														440
R Red Pine																121									24			145
U Upland Brush																								11				11
M Upland Hdwds																									239			239
<b>Total</b>	<b>1048</b>				<b>16</b>		<b>23</b>					<b>9</b>		<b>440</b>		<b>121</b>								<b>11</b>	<b>263</b>		<b>20</b>	<b>1951</b>

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

OSCODA COUNTY

COMPARTMENT: 14

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	15039 Cds	Hardwood	2242 Cds
Hardwood	5126 Mbf	Hardwood	1087 Mbf
Softwood	1339 Cds	Softwood	267 Cds
Softwood	1919 Mbf	Softwood	576 Mbf
Sum TotVol	30468 Cds	Sum CutVol	5835 Cds
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	328
1951			

**GRAYLING FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 14**

**Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
<b>9</b>	<b>O9</b>	46	82	57	oak	mature	selection	1		
comnts Fmd : 2006 Notes: Mature Oak stand mixed with hardwoods and scattered large diameter Red and White Pine. (Oak is very large in diameter also.) Unique stand because of the Eastern Hemlock within the stand. M2 Understory. Recommend a selection cut, removing all the Aspen, Red Maple and 20 BA of Oak Sawtimber Leave Hemlock along with scattered Red and White Pine. Stand is somewhat level with valleys sloping downward to the north. The north edge of this stand borders a very steep gully. Residual B.A of 110										
<b>10</b>	<b>M9</b>	46		68	northern hardwood	unevenaged	thinning	1		
comnts Fmd : Mature Northern Hardwood stand. Private on two sides. Powerline traverses through a portion of the stand. Recommen thinning stand 80-90 BA. Good hardwood site. Some Ash and Hemlock within the stand. When marking, take out the poorest quality trees of any species within the stand except for the Hemlock. Remove all the Aspen.										
<b>16</b>	<b>O9</b>	46	92	64	oak	mature	shelterwood-seed	1		
comnts Fmd : 2006: Mature Oak stand. Stand borders Bailey Road. Cycle trail traverses through a portion of the stand. Gas and Oil Pipeline borders stand between Bailey Road and itself. Mix species throughout stand. Some large Red and White Pine scattered throughout the stand as well as Northern Hardwoods. (Ash, Beech, Basswood, Sugar and Red Maple, Paper Birch and Aspen. Recommend a shelterwood seed cut 40% Crown closure. Mark to leave. Might want to leave heavier along Bailey Road. Old Notes: HOLD. NEXT YO, THIN.										
<b>18</b>	<b>O9</b>	15	92	64	oak	mature	shelterwood-seed	1		
comnts Fmd : 2006: Mature Oak stand. Stand borders Bailey Road. Cycle trail traverses through a portion of the stand. Gas and Oil Pipeline borders stand between Bailey Road and itself. Mix species throughout stand. Some large Red and White Pine scattered throughout the stand as well as Northern Hardwoods. (Ash, Beech, Basswood, Sugar and Red Maple, Paper Birch and Aspen. Recommend a shelterwood seed cut 40% Crown closure. Mark to leave. Might want to leave heavier along Bailey Road. Old Notes: HOLD. NEXT YO, THIN.										
<b>28</b>	<b>R9</b>	9	83	50	red pine	immature	selection	1		
comnts Fmd : Natural Red Pine stand on Ridge. Recommend Recommend selection cut to the stand to 110 BA.										
<b>32</b>	<b>R9</b>	33		50	red pine	two aged	thinning	1		
comnts Fmd : Natural Red Pine stand mixed with Aspen and other hardwoods. Two aged stand. Cycle trail traverses through the stand. Scattered Jack Pine on west end of the stand and along two track leading to the private. Recommend a thinning cut, remove Aspen, Red Maple, Jack Pine. Also adjacent to Mt Tom Road. Nots final harvesting Red Pine at this time because of visual and receration. In future, would like to keep as a mixed stand with several age classes. Old notesHODGEPODGE, PATCHES OF RP LOGS										
<b>37</b>	<b>J6</b>	17	42	70	aspen (upland)	mature	final harvest	1		
comnts Fmd : 2006: A mixed stand of Jack Pine, Aspen, and Red Pine in a valley with a two track traversing through the stand to access private. ORV trail traverses through the stand also. Recommend final harvest, but leave the large Red Pine that is scattered within the stand. Keep two track clear of brush and maintained at all times as well as the ORV trail. Old Notes.SCATT RP, JP, M & O										
<b>40</b>	<b>A9</b>	31	85	68	aspen (upland)	mature	final harvest	1		
comnts Fmd : 2006 Notes: Mature Aspen stand mixed with Oak and small hardwoods (Beech, Red and Sugar Maple and Paper Birch) Oak is mostly of sawlog size. Located on a ridge with an M1/M2 understory. Ground cover consists of Rosy Twisted Salk(Salmon Seal) Starflower, Wild Sarsasprilla. Recommend final harvest and regenerate naturally to Aspen (Will be a mix of other hardwoods naturally as well.) Might check with Wildlife Division as to whether or not to leave some scattered or patches of mature Oak for mast in general. Old Notes: LEAVE FOR AGE DIVERSITY.										
<b>41</b>	<b>A6</b>	8	41	60	aspen (upland)	mature	final harvest	1		
comnts Fmd : 2006 Notes: Mature Aspen stand betwee Aspen/Oak ridge (stand 40) and A3/4 stand to the east. Recommend final harvest and treat with stand 40. Somewhat in a low pocket, but dry.										
<b>43</b>	<b>M9</b>	37	86	63	northern hardwood	mature	final harvest	1		
comnts Fmd : 2006 Notes: Classified as a B6 last inventory. Now classifiying stand as a M9 stand. Stand is a mix of hardwoods. Birch is starting to die out of the stand. Aspen, Paper Birch, Sugar and Red Maple, Beech, W. Ash, Red Oak and White Pine make up the stand. Medium good hardwood site according to indicator ground cover species. Recommend a final harvest, but leave some small 1/2 patches for diversity and visual along ORV route that passes along south side of stand. Aspen, following the harvest, will probably be the dominant species, but will probably get a mix of hardwood species.LEAVE FOR AGE DIVERSITY. BIRCH IS VERY POOR.										
<b>49</b>	<b>R9</b>	10	57	70	red pine	mature	thinning	1		
comnts Fmd : Red Pine stand mixed with White Pine and Northern Hardwoods. M2 Understory. Aspen was cut out of stand in 1971. Recommend a thinning. Thin stand to 90 BA Remove all hardwood species except for Oak. Remove 20 BA of large diameter Red Pine and 10 BA of White Pine pole timeber. Manage for Red Pine/White Pine with a mix of hardwood. Leave stand to regenerate naturally.										
<b>50</b>	<b>R9</b>	6	57	70	red pine	mature	thinning	1		
comnts Fmd : Red Pine stand mixed with White Pine and Northern Hardwoods. M2 Understory. Aspen was cut out of stand in 1971. Recommend a thinning. Thin stand to 90 BA Remove all hardwood species except for Oak. Remove 20 BA of large diameter Red Pine and 10 BA of White Pine pole timeber. Manage for Red Pine/White Pine with a mix of hardwood. Leave stand to regenerate naturally.										

**GRAYLING FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 14**

**Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
55	R9	24	97	60	northern hardwood	mature	final harvest	1		

comnts Fmd : 2006 Notes: Mature Red Pine stand mixed with a few Oak. M3 understory. Some Red Pine regeneration - natural. Previous stand history: PRESERVE DEN TREES. ASPEN, JP, AND BIRCH WERE REMOVED IN 1980-81. MARK, THIN FROM BELOW. Stand thinned in 2001 under contract #013-99-01 Private Access Pine sale. Two track trail seperates this stand from stand 56. Recommend final harvest and convert to hardwoods. Possible raptor in stand. Need silviculturalist and wildlfe people to look at stand to determine if could manage stand differently. Such as old growth, big tree management for examples.

**Total Acres..... 328**

**Proposed Treatments  
With Limiting Factors**

**Compartment: 14**

**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>
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TREATMENT LIMITING FACTORS:















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Total Acres..... 0

# Field Map

Compartment 14  
 T28N, R03E, Sec. 29-32  
 County: Oscoda  
 Unit: Grayling  
 YOE: 2008  
 Acres: 1,951 GIS Calculated  
 Stand Examiner: Craig Farrer  
 Map Revised: 10/16/2006  
 Map Phase: Pre-review

## Legend

-  Miris Corners
-  Paved Roads
-  County Gravel Roads
-  Poor Dirt Roads
-  Trails
-  Pipelines
-  Survey Markers
-  ORV Routes
-  ORV Trails
-  Stand Boundary
-  100 - Final Harvest
-  300 - Shelterwood-seed
-  400 - Thinning
-  800 - Selection

