



**GRAYLING FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 012 ENTRY YEAR: 2007

Compartment Acreage: 1978 County: Oscoda

Revision Date: 09/07/2005

Stand Examiner: Mark Montei

Legal Description: T27N R02E Sections 1, 2, 3
T28N R02E Sections 34, 35, 36

RMU (if applicable):

Management Goals:

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

Soil and Topography:

Most of the compartment is Grayling /Rubicon sands. A small portion of the compartment is Emmet/Kalkaska loamy sands. The Grayling /Rubicon sands are on ice-contact outwash and glacial outwash sand and are level. The Emmet/Kalkaska loamy sands are hilly (usually with short steep runs). The soils are more fertile but are still droughty. The stands on the Emmet/Kalkaska loamy sands are a mixture of northern red oak and northern hardwoods.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

The compartment is mostly State ownership with private property to the south.

Unique, Natural Features (include only non-site specific and non-sensitive information):

The Pine Barrens Frost Pocket (compartment 029) is located just to the east of the compartment.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):

No known occupational sites occur in the compartment.

Special Management Designations or Considerations:

The compartment contains the burial pit for livestock that were contaminated with polybrominated biphenyl (PBB). The pit was created in 1977. It is a sealed clay pit and has monitor wells associated with it. No activity should occur on or near the pit. Some of the compartment was previously in The Pine Barrens Frost Pocket Area. That portion has been removed from the compartment and all of The Pine Barrens Frost Pocket Area was put into a single compartment, compartment 029 in 2005.

Watershed and Fisheries Considerations:

Muskrat Lake is located approximately two miles to the west of the compartment.

Wildlife Habitat Considerations:

Continue treatments to provide quality habitat for deer, grouse and turkey. There is a small maintained opening in stand 50.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of ice-contact outwash and glacial outwash sand and gravel and post glacial 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 of the Coldwater Shale. A gravel pit is located in section 24 and potential is good. The compartment is half-leased for oil and gas and part of it has been developed for the Antrim Shale. Sections 35 and 36 were nominated for the June 2005 auction.

Vehicle Access:

The compartment is accessed by Mt. Tom Road (gravel County maintained road), Pennsylvania Crossing Road (dirt County maintained road), Esch Road (dirt County maintained road), Snake Branch Road (dirt County maintained road), Penn Road (dirt County maintained road), and Centerline Road (gravel County maintained road). The snowmobile trail and other forest road provide additional access into and through the compartment. Vehicular access in the compartment is good. No new roads are needed at this time. All new roads created through management activities are to be closed upon completion. Access to an area called The Centerline Pit Area (illegal ORV use area) needs to be curtailed, which will require blocking illegal trails and rerouting of a designated trail.

Survey Needs:

The location of the PBB pit and associated monitor wells needs to be surveyed or GPS'ed. There is a double set of survey corners between the two survey townships.

Recreational Facilities and Opportunities:

A snowmobile trail (Trail #4; Muskrat Lake Trail) and an ORV trail traverse through the compartment. Dispersed recreational use occurs throughout the compartment. Lots of illegal ORV trails occur in the compartment. The compartment contains an illegal and historic scramble area in which efforts have been made to eliminate use in the past via blockade and enforcement efforts. Past efforts have been relatively ineffective. We need to develop a comprehensive plan to address issues in the area, including rerouting the ORV trail out of the area. One hill in the area is completely denuded and experiences lots of erosion.

Fire Protection:

The compartment consists of mainly of various-aged aspen, and thinned oak stands. A few acres of jack pine are in the compartment. Access to the compartment for fire apparatus is good. There are a few exposures on private property to the south of the compartment. Antrim gas wells are scattered throughout the compartment. An underground pipeline is located on the east side of Penn Road. The closest water point is at Muskrat Lake located approximately 2 miles west of the compartment.

LOTS Compartment Acreage:**Additional Compartment Information:**

A trail road leading into private property in section 34 has been illegally maintained: trees were pushed out, trail brushed and crushed stone put down without any permission. This needs to be followed up as this is a trespass.

Former well sites (stands #409 & 411) are in need of site reclamation.

- **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: 12

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		69	429		467		174		7	19									1165
Grass	45																		45
Jack Pine				4	7		11												22
Non Stocked	6			4															10
Oak									14	66		133							213
Paper Birch							9												9
Red Pine								181		3		12	68			7			271
Upland Brush	41																		41
Upland Hdwds									6	12								127	145
White Pine					18		26		13										57
Total	92	69	429	8	492		220	181	40	100		145	68			7		127	1978

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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: 12

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	1165																										1165
G Grass					45																						45
J Jack Pine	11						11																				22
X Non Stocked													10														10
O Oak														213													213
B Paper Birch															9												9
R Red Pine																271											271
U Upland Brush																								41			41
M Upland Hdwds																									145		145
W White Pine																										57	57
Total	1176				45		11						10	213	9	271							41	145		57	1978

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

OSCODA COUNTY

COMPARTMENT: 12

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	9274 Cds	Hardwood	4786 Cds
Hardwood	934 Mbf	Hardwood	140 Mbf
Softwood	2356 Cds	Softwood	125 Cds
Softwood	1044 Mbf	Sum CutVol	5191 Cds
Sum TotVol	15586 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	314
1978			

GRAYLING FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 12

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
8	O6	30	99	53	oak	immature	shelterwood-seed	2			
comnts Fmd : (THIN OAK AND PINE, CC PATCHES OF ASPEN. ASPEN PATCHES ARE STAND 40. Old comment.) Remove red maple and aspen, and mark oak. Stand is hilly. Regeneration will be a mix of red maple, aspen and oak. The stand is along Esch Road and adjacent to private property. The stand is adjacent to Compartment 029, "The Pine Barrens Frost Pocket." 08/15/2005 mm											
12	A6	54	57	50	aspen (upland)	mature	final harvest	2			
comnts Fmd : Final harvest. Red maple and northern pin oak is of very poor quality. Red maple and northern pin oak will regenerate naturally and the aspen should expand into the red maple/northern pin oak areas of the stand. The stand is adjacent to "The Pine Barrens Frost Pocket." The stand is adjacent to private property. 06/06/2005 mm											
13	A5	8	37	48	aspen (upland)	mature	final harvest	2			
comnts Fmd : Final harvest. The stand will regenerate naturally to aspen. The stand is along Mt. Tom Road. The stand is on an east facing slope. 06/06/2005 mm											
18	A5	9	57	47	aspen (upland)	mature	final harvest	2			
comnts Fmd : (MANAGE WITH STAND TO NORTH. Old comment.) The stand can not be included with the stand to the north. Timber sale # 72-056-04-01 (Frost Pocket Aspen) is just to the north of this stand. This sale was cut by G & G Forest Products in 2005. The stand is adjacent to Compartment 029, "The Pine Barrens Frost Pocket." This stand will regenerate naturally to aspen and oak. 06/06/2005 mm											
20	A5	26	57	47	aspen (upland)	mature	final harvest	2			
comnts Fmd : (HOLD 10 FOR DIVERSITY. Old comment.) Final harvest. This stand is along Pennsylvania Crossing Road. The stand is adjacent to Compartment 029, "The Pine Barrens Frost Pocket." The stand will naturally regenerate to aspen. 06/06/2005 mm											
21	O6	29	100	66	oak	mature	shelterwood-seed	2			
comnts Fmd : Remove aspen and mark oak. The stand is hilly. The stand will regenerate naturally to oak and aspen. The ORV trail traverses through the stand. The stand is adjacent to private property. The stand is along Esch Road and along Pennsylvania Crossing Road. 08/15/2005 mm											
36	A6	19	85	55	aspen (upland)	immature	final harvest	1			
comnts Fmd : (HOLD 10 FOR AGE DIVERSITY. Old comment.) Final harvest. The stand will naturally regenerate to A3. The stand is along the snowmobile trail. 06/06/2005 mm											
38	A6	85	49	52	aspen (upland)	mature	final harvest	2			
comnts Fmd : (HOLD TIL ASPEN MATURES. Old comment.) Final harvest. The stand will regenerate naturally to aspen. The stand is along Penn Road. There is a underground gas flowline on the east side of Penn Road. A trail has been, and continues to be, illegally improved for access onto private property. The stand is adjacent to private property. 06/06/2005 mm											
41	M6	22		59	northern hardwood	unevenaged	selection	2			
comnts Fmd : (FDF? STAND NUMBER REASSIGNED-WAS PART OF STAND 8 Old comment.) Thin the stand to put on growth on residual trees and promote natural generation of northern hardwoods. The stand is hilly. The stand is adjacent to private property. 08/15/2005 mm											
59	J5	11	56	48	aspen (upland)	mature	final harvest	2			
comnts Fmd : The stand is along Pennsylvania Crossing Crossing Road. The stand will regenerate to a mix of aspen and jack pine. 08/15/2005 mm											
62	O6	14	68	53	oak	immature	shelterwood-seed	2			
comnts Fmd : Remove aspen and maple, and mark oak. The stand is hilly. The stand will regenerate to aspen, maple and oak. The stand is adjacent to private property. The stand is adjacent to Compartment 029, "The Pine Barrens Frost Pocket." 08/15/2005 mm											
67	A9	7	68	54	aspen (upland)	mature	final harvest	2			
comnts Fmd : Leave white pine for diversity. The stand is on small hill. The stand will regenerate to aspen and red maple. 08/15/2005 mm											
401	G0	3			grass	nonstocked		0	opening maintenance		
comnts Fmd : Maintained wildlife opening. 06/01/2005 mm											
402	G0	4			grass	nonstocked		0	opening maintenance		
comnts Fmd : Maintained wildlife opening. 06/01/2005 mm											
403	G0	3			grass	nonstocked		0	opening maintenance		
comnts Fmd : Maintained wildlife opening. 06/01/2005 mm											
Total Acres.....		324									

**Proposed Treatments
With Limiting Factors**

Compartment: 12

Entry Year: 2007


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:



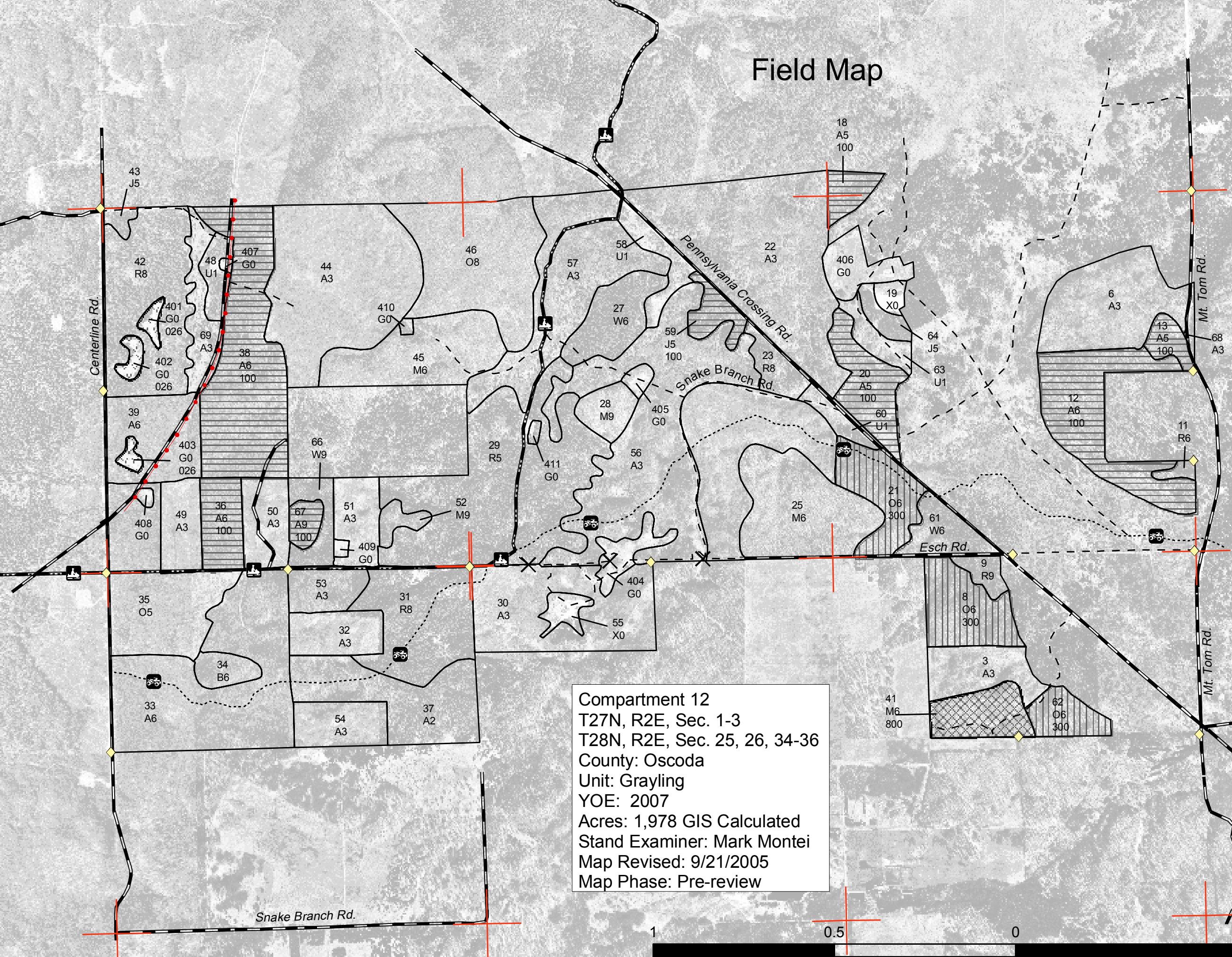
Total Acres..... 0

Field Map

	26	25
34	35	36
3	2	1



N

Legend

- ◆ RLS Corners
- Miris Corners
- Gravel Roads
- - - Poor Dirt Roads
- ⋯ Trails
- Pipelines
- × Gates
- ☎ Snowmobile Trails
- ☎ ORV Trails
- Stand Boundary
- ▨ 026 - Opening Maintenance
- ▩ 100 - Final Harvest
- ▧ 300 - Shelterwood-seed
- ▦ 800 - Selection

Name Gravel Roads
Name Poor Dirt Roads

Compartment 12
 T27N, R2E, Sec. 1-3
 T28N, R2E, Sec. 25, 26, 34-36
 County: Oscoda
 Unit: Grayling
 YOE: 2007
 Acres: 1,978 GIS Calculated
 Stand Examiner: Mark Monte
 Map Revised: 9/21/2005
 Map Phase: Pre-review

