



**GRAYLING FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 264 ENTRY YEAR: 2007

GIS Compartment Acreage: 1926 County: Crawford

Revision Date: September 9, 2005

Stand Examiner: Craig Farrer

Legal Description: T28N R2W Sections 34, 35, and 36, Lovells Township

RMU (if applicable): N/A

Management Goals: To provide an area that allows for National Guard training while maintaining forest health, productivity, sustainability, species diversification, and structural diversity throughout the compartment.

Soil and Topography: The topography within the compartment is generally flat to gently rolling terrain. Soil types within the compartment consists primarily Graycalm, Graycalm-Grayling Sands and Roslawn. These are well-drained soils for the most part with the exception of muck soils in and around the small lake in the south part of section 36.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The compartment consists of solid state ownership. All state land in the compartment is under long term lease to the Camp Grayling Nation Guard (L-1479) for purposes of military training. The compartment is located southeast of KP Lake.

Unique, Natural Features (include only non-site specific and non-sensitive information): The compartment also has or has the potential to have dry prairie plants, insects of grasslands and insects and reptiles of open wetlands.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): None, other than the evidence of an old railroad grade in section 35 and past and present military use.

Special Management Designations or Considerations: None.

Watershed and Fisheries Considerations: A portion of a small lake exits in the southwest of the southeast of section 36.

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. Ongoing grouse management exists within the west half of section 34 of the compartment. Several 20 acre blocks have been cut in the past at different times to stagger age classes. There are no maintained wildlife openings within the compartment.

Mineral Resource and Development Concerns and/or Restrictions:

Surface sediments consist of ice-contact outwash sand and gravel. The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift is the Coldwater Shale. The Coldwater does not have a current economic use. The nearest gravel pit is north of K P Lake and potential is good. The Compartment is not currently leased for oil and gas development.

Vehicle Access: Access into the compartment can be obtained by Wakeley Bridge Road and Fruit Farm Road. The Lovells Snowmobile Trail traverses through all three sections of the compartment and several two tracks branch from this trail. Military gates are located upon these two tracks including Wakeley Bridge Road and the Lovells Snowmobile Trail that may be closed when military is training. No roads have been identified for closure.

Survey Needs: The north south section line, in the north east quarter of section 36 between sections 36 and 1.

Recreational Facilities and Opportunities: No recreational facilities exist within the compartment. The Lovells Snowmobile Trail traverses through all three sections of the compartment. Other recreational opportunities include hunting, wildlife observation, hiking and mushrooming.

Fire Protection: This compartment falls under the jurisdiction of the Lovells Volunteer Fire Department and the Grayling DNR. Good access, for fire suppression efforts exists throughout the compartment. However, the nearest accessible water sources are the North Branch of Big Creek that runs through Lovells and KP Lake just to the west of compartment. The majority of the compartment is Aspen that should not pose a major fire threat, but the Red Pine/Jack Pine mix in the east side of compartment has the potential threat of a major fire. The Red Line Fire Area, within this compartment and the compartment to the south, burnt a total of 127 acres in June of 1998.

Additional Compartment Information:

LOTS Compartment Acreage: 1913

- **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: **264**

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not Coded	STAND AGE CLASS																All Aged	Total
		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		
Aspen		274	468	54	215	11		104	144									8	1278
Bog or Marsh	10																		10
Grass	178																		178
Jack Pine					6			30	3										39
Marsh	8																		8
Oak		17						42	31										90
Red Pine		10						268	6										284
Upland Brush	10																		10
Upland Hdwds									21										21
Water	2																		2
White Pine						6													6
Total	208	301	468	54	221	17		444	205									8	1926

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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: 264

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	1266															12											1278
V Bog or Marsh			10																								10
G Grass					178																						178
J Jack Pine							39																				39
N Marsh											8																8
O Oak														90													90
R Red Pine																284											284
U Upland Brush																								10			10
M Upland Hdwds	21																										21
Z Water																									2		2
W White Pine																										6	6
Total	1287		10		178		39				8			90		296							10		2	6	1926

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

CRAWFORD COUNTY

COMPARTMENT: **264**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	10554 Cds	Hardwood	5022 Cds
Hardwood	392 Mbf	Hardwood	303 Mbf
Softwood	4764 Cds	Softwood	1707 Cds
Softwood	1298 Mbf	Softwood	125 Mbf
Sum TotVol	18698 Cds	Sum CutVol	7585 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	410
1926			

GRAYLING FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 264 Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
4	M6	21	70	65	aspen (upland)	mature	final harvest	1		
comnts Fmd : Mature Northern Hardwood stand. Could of key this stand to Aspen or Oak. Southend of stand is more Oak and the northend of stand is more Aspen. Recommend final harvest, especially if wildlife wants to continue managing blocks for grouse within this area. Ground Pine, Partridge berry and Wintergreen with some Braken fern make up the ground cover. Witchhazel is present in the south part of the stand. Old note from previous inventory said: SHOULD HOLD PATCHES OF SOLID OAK										
9	A6	17	70	65	aspen (upland)	mature	final harvest	1		
comnts Fmd : Aspen and Red Maple stand with scattered Oak. Recommend final harvest with stand 10. Stand 9 is the same as stand 10, however they are seperated by two track(snowmobile trail) and grass stand. Old note: Previous inventory says to hold patches of solid Oak.										
12	A6	13	70	65	aspen (upland)	mature	final harvest	1		
comnts Fmd : Mature Aspen stand. Shrubs, Bramble, Blueberry, Wintergreen, and Braken fern for ground cover. Recommend final harvest and manage for Aspen.										
17	A6	21	70	65	aspen (upland)	mature	final harvest	1		
comnts Fmd : Aspen stand mixed with Oak. Recommend final harvest and naturally regenerate to Aspen. Old note: SHOULD HOLD PATCHES OF SOLID OAK										
22	A6	8	70	65	aspen (upland)	mature	final harvest	1		
comnts Fmd : Mature Aspen stand with Oak mixed throughout it. Recommend final harvest and naturally regenerate to Aspen. Snomobile trail crosses the south end of stand.										
23	A6	10	70	65	aspen (upland)	mature	final harvest	1		
comnts Fmd : Mature Aspen stand with Oak mixed throughout it. Recommend final harvest and naturally regenerate to Aspen. Snomobile trail crosses the south end of stand.										
36	A6	13	60	55	aspen (upland)	two aged	final harvest	1		
comnts Fmd : Aspen stand mixed with Red Maple and White Pine. Recommend final harvest and regenerate naturally to Aspen and Red Maple.										
50	A6	14	66	63	aspen (upland)	two aged	final harvest	1		
comnts Fmd : Two age stand of Aspen (mixed). Recommend final harvest and naturally regenerate back to Aspen. Military leased land.										
51	A6	24	59	63	aspen (upland)	mature	shelterwood-seed	1		
comnts Fmd : Aspen stand with Oak scattered throughout the stand. Some scattered Red Pine pulpwood throughout stand. Recommend a final harvest, but leaving patches throughout the stand at least a half acre in size. The Oak and Aspen is mature and needs to be regenerated however, due to the fair amount of Aspen and Aspen of different age classes with in the compartment, I would like to leave some Oak for species diversity and wildlife purposes within the compartment. Should get back by natural regeneration a mixed, medium to full stocking of Aspen, Red Maple and Oak.										
52	A9	8		63	aspen (upland)	mature	final harvest	1		
comnts Fmd : Large diameter Aspen stand in a valley. Lots of large diameter Aspne with conks and rot in them were tallied as pulpwood. Recommend final harvest with adjacent stands. Stand should regenerated back to Aspen following the harvest naturally.										
54	O6	28	65	63	oak	mature	shelterwood-seed	1		
comnts Fmd : Mature Oak and Aspen stand. Two track on section line cuts north and south through the stand. Snowmobile trail crosses stand in the south. Recommnd a final harvest, but leaving patches of at least an 1/2 acre in size throughout the stand to retain some Oak within the compartment and also for wildlife purposes. Stand should regenerate naturally to a mixed stand of Aspen, Red Maple and Oak stand.										
57	J6	7	65	49	jack pine	mature	final harvest	1		
comnts Fmd : Small Jack Pine stand located between Immature Aspen stand and a lowland Jack pine stand. Recommend final harvest. Plan for natural regeneration of Aspen, Oak, Jack Pine and Red Pine.										
60	O6	7	73	65	oak	mature	final harvest	1		
comnts Fmd : Small Oak stand with a mix of Aspen within the stand and surrounding the stand. Recommend final harvest and manage for Oak/Aspen mixed stand. Natural Regeneration.										
62	R9	83	65	49	red pine	immature	thinning	1		
comnts Fmd : Large Red Pine stand with some evidence that some portions of the stand were planted. There is Jack Pine, Red Maple and Aspen scattered throughout the stand, but seam to be more associated in the valley than on the ridges. The terrain is very rolling with ridges and valley throughout the stand. Snowmobile trail traverses along the west side of the stand. Recommending a thinning, with the removal of all Aspen, Red Maple and Jack Pine. Also marking some Red Pine for harvest as well. Leaving a residual BA of Red Pine around 120 to 140.										

GRAYLING FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 264 Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
63	A6	23	68	64	aspen (upland)	mature	final harvest	1			
comnts Fmd : Aspen stand mixed with Red Pine. Some Red Pine is suppressed. Red Maple and Oak are scattered throughout the stand to. Recommend final harvest and manage for Aspen. Sure to get Aspen, Red Maple and some Oak back naturally.											
65	A6	8	68	64	aspen (upland)	mature	final harvest	1			
comnts Fmd : Aspen stand mixed with Red Pine. Some Red Pine is suppressed. Red Maple and Oak are scattered throughout the stand to. Recommend final harvest and manage for Aspen. Sure to get Aspen, Red Maple and some Oak back naturally.											
72	R9	16	65	58	red pine	mature	thinning	1			
comnts Fmd : Mature Red Pine stand mixed with Oak and some Jack Pine. This portion of the stand escaped the Red Line fire which occurred in 1998.. Recommend a thinning of the stand. Thin to 90-100 BA by removing all Aspen and Jack pine as well as any Red Pine needed.											
73	R9	5	65	49	red pine	immature	thinning	1			
comnts Fmd : Large Red Pine stand with some evidence that some portions of the stand were planted. There is Jack Pine, Red Maple and Aspen scattered throughout the stand, but seem to be more associated in the valley than on the ridges. The terrain is very rolling with ridges and valley throughout the stand. Snowmobile trail traverses along the west side of the stand. Recommending a thinning, with the removal of all Aspen, Red Maple and Jack Pine. Also marking some Red Pine for harvest as well. Leaving a residual BA of Red Pine around 120 to 140.											
75	R9	22	65	49	red pine	mature	selection	1	natural regeneration		
comnts Fmd : Mixed Stand of Red Pine, Jack Pine and Aspen. Located in a valley. Two track traverses through portions of the stand. Lots of standing dead and down and dead material (Jack Pine and Aspen). Recommend selection harvest, but leave all Red Pine. Manage for a mixed stand of Red Pine, Aspen, Jack Pine and Oak. Protect as much established regeneration as possible.											
78	J6	3	65	49	jack pine	immature	final harvest	1			
comnts Fmd : Small Jack Pine stand with some Red Pine scattered throughout the stand. Lots of dead Jack Pine within the stand. Recommend final harvest with stand 57. Let natural regeneration come in following harvest (Will probably be Red Maple.).											
80	A6	12	69	59	red pine	mature	thinning	1			
comnts Fmd : Aspen stand mixed with Red Pine and Jack Pine. East side of stand border snowmobile trail. Recommend a thinning, removing all Red Maple, Aspen and Jack Pine. Leaving Red Pine for visual along the snowmobile trail.											
81	R9	13	65	58	red pine	immature	thinning	1			
comnts Fmd : Red Pine stand mixed with Aspen. I believe this was part of stand 59 (stand 8) last entry year and was not cut. I Recommend a thinning to remove all Aspen and some of the Red Pine. (Residual to be left is 110BA)											
83	A9	10	65	63	aspen (upland)	mature	final harvest	1			
comnts Fmd : Mature Aspen stand mixed with Oak. Snowmobile trail passes through stand. Recommend final harvest and regenerate naturally to Aspen. Will probably get Red Maple and Oak as well.											
87	R9	2	65	49	red pine	immature	thinning	1			
comnts Fmd : Large Red Pine stand with some evidence that some portions of the stand were planted. There is Jack Pine, Red Maple and Aspen scattered throughout the stand, but seem to be more associated in the valley than on the ridges. The terrain is very rolling with ridges and valley throughout the stand. Snowmobile trail traverses along the west side of the stand. Recommending a thinning, with the removal of all Aspen, Red Maple and Jack Pine. Also marking some Red Pine for harvest as well. Leaving a residual BA of Red Pine around 120 to 140.											
88	A6	2	70	65	aspen (upland)	mature	final harvest	1			
comnts Fmd : Aspen stand mixed with Oak. Recommend final harvest and naturally regenerate to Aspen. Old note: SHOULD HOLD PATCHES OF SOLID OAK											
Total Acres.....		390									

GRAYLING FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 264 **Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
29	J6	20	67	49	jack pine	two aged	final harvest	1		

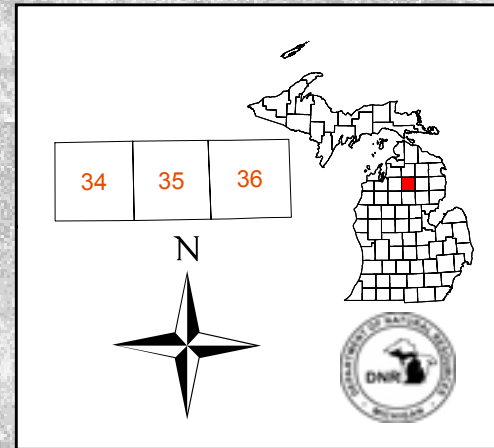
TREATMENT LIMITING FACTORS: Too steep

comnts Fmd : Jack Pine stand on side slope surrounding marsh. Stand has a mix of Aspen, Red Pine and White Pine. Erosion and slope steepness could be a problem for harvesting. Understory consists of Jack Pine as the dominant species with a fair amount of Quaking Aspen and White Pine scattered about the stand. Stand has a few super canopy Red and White Pine throughout it. Stand is somewhat near and visible to North Wakely Bridge Road. Past military and fire evidence exists within the stand.

Total Acres..... 20

Field Map

Compartment 264
 T28N, R2W, Sec. 34-36
 County: Crawford
 Unit: Grayling
 YOE: 2007
 Acres: 1,926 GIS Calculated
 Stand Examiner: Craig Frarrer
 Map Revised: 9/26/2005
 Map Phase: Pre-review



Legend

- Miris Corners
- - Poor Dirt Roads
- Old Railroad Grade
- Trails
- × Natural Material
- × Military Gates
- × Military Signs
- Stand Boundary
- ▨ 026 - Opening maintenance
- ▩ 100 - Final harvest
- ▧ 117 - Final harvest/Planting/Prescribed burning
- ▦ 300 - Shelterwood-seed
- ▧ 400 - Thinning

Name Gravel Roads

