



**GRAYLING FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 215 ENTRY YEAR: 2007

GIS Compartment Acreage: 1533 County: Crawford

Revision Date: September 7, 2005

Stand Examiner: Patrick L. Potter

Legal Description: T28N R3W Sections 20, 29 and 30

RMU (if applicable): N/A

Management Goals: The emphasis of management shall be on retaining and enhancing the natural beauty and biological diversity of the area, and enhancing wildlife habitat for both hunting and wildlife observation purposes while maintaining forest health, productivity, sustainability, species and structural diversity while providing for multiple use and visual management.

Soil and Topography: Predominately Kalkaska and Rubicon sands. Topography is mainly flat to rolling, with a few steeper hills in Section 20.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Compartment 215 consists of three contiguous sections of land, of which 14% is privately owned. Section 30 is bisected by the I-75 freeway. Land use in this area is slowly changing from uninhabited to residential.

Unique, Natural Features: There are a few remnants of old apple orchards.

Archeological, Historical, and Cultural: Historic logging and farm activity is evidenced by old railroad grades and apple orchards.

Special Management Designations or Considerations: Stand 404 should be managed for the big and little blue stem grasses. This species most likely requires open conditions. Prevent woody plant encroachment by using prescribed fire or manual brush removal. Much of this habitat has been lost and degraded via conversion to agriculture, development, alterations of ground water hydrology (drains, etc) and fire suppression.

Watershed and Fisheries Considerations: No waterways or fisheries potential exist in the compartment.

Wildlife Habitat Considerations: The compartment has decent wildlife habitat potential due to the many young aspen stands in the area. Numerous non-maintained grassy openings are scattered throughout the compartment. Old apple trees exist in a few of these openings. It is recommended the apple trees be pruned to prolong their life and increase food production.

Mineral Resource and Development Concerns and/or Restrictions: Crawford County

Surface sediments consist of ice-contact outwash sand and gravel. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift is the Coldwater Shale. The Coldwater does not have an economic use. The nearest gravel pit is located in Section 32 and potential is good. The compartment was leased and developed for the Antrim Shale, but all wells have been plugged and abandoned.

Vehicle Access: The entire compartment is easily accessed from on of four County Roads (Babbitt, Feldhauser, Roberts and C.612), as well as numerous trail roads. Note: proposed road closure in section 30 after stand is burned.

Survey Needs: None at this time.

Recreational Facilities and Opportunities: The compartment does not contain any designated recreational trails. The area hosts a number of dispersed recreational activities. A designated horse trail running through the compartment was abandoned over ten years ago, although trail markers still exist. Forbush Cross Country Ski Headquarters is located across County Road 612, south of Section 29, which promotes use of trails in section 29 for skiing.

Fire Protection: Current road system is adequate, and no timber conversion is needed.

Additional Compartment Information: Due to the compartment's its high recreational potential, they are many opportunities for educational and visual management. Planting of red pine and white pine on state land has occurred by the adjacent landowner in section 30 stand (#403)

LOTS Compartment Acreage: 1535

- **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: 215

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not	STAND AGE CLASS																Total	
	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
Aspen		3	72	164	6	5	42	14											306
Grass	406																		406
Jack Pine						5		1											6
Local Name							2												2
Red Pine						61	215												276
Upland Hdwds							3	10	263	18								235	529
Water	2																		2
White Pine									6										6
Total	408	3	72	164	6	71	262	25	269	18								235	1533

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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: 215

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	291																							1	12		2	306
G Grass					406																							406
J Jack Pine							6																					6
I Local Name							2																					2
R Red Pine																276												276
M Upland Hdwds																									529		529	
Z Water																									2		2	
W White Pine																										6	6	
Total	291				406		8									276								1	541	2	8	1533

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

CRAWFORD COUNTY

COMPARTMENT: 215

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	10783 Cds	Hardwood	1704 Cds
Hardwood	1946 Mbf	Hardwood	140 Mbf
Softwood	11348 Cds	Softwood	3253 Cds
Softwood	1246 Mbf	Softwood	312 Mbf
Sum TotVol	28515 Cds	Sum CutVol	5861 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	333
1533			

GRAYLING FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 215 Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	DFD Status
2	A5	12	60	54	northern hardwood	mature	selection	2	natural regeneration	
comnts Fmd : Mix stand of red maple and individual clones of Aspen. Understory is a mix of regen ranging from ironwood and hawthorn to red and sugar maple. Ground cover consist of club moss and bracken fern. Could harvest all the aspen. If harvested no summer cut due to soil factors. Stand is visible from I-75 corridor so for visible and social management leave all red maple for color and cover.										
17	R9	1	50	67	red pine	mature	thinning	1		
comnts Fmd : Pine needles ground cover. Stand has been marked for third row thinning. Stand was not harvested. Paint is still very visible. Thin with adjacent stands.										
18	R6	4	50	67	red pine	immature	thinning	1		
comnts Fmd : 3RD ROW THIN PLANTATION. This was part of the Rugged Red Pine sale #039-97-01 third row thinned 1998 to 2000. Do a individual marking to create more natural looking stand for growth and visual management. Over all sawlog dia is small but very little taper.										
22	R6	23	50	60	red pine	immature	thinning	1		
comnts Fmd : Stand planed 1955, third row thinned 1998. Deep hole north end was not harvested. Need to do an individual marking create more natureal looking stand.										
37	I6	2	50	50	jack pine	mature	final harvest	2	natural regeneration	
comnts Fmd : 5-6 rows of planted jack and sotch pine. Treat with stand 50.										
44	M6	146	75	70	northern hardwood	two aged	thinning	1		
comnts Fmd : Steep slope east side. Found solomon's seal, trilliums, violets, and wild sarsaparilla. The ironwood appears to be very happy. Flat terrain once on top, mostly pole size (6-9) with some very nice stems. Crop tree to 90 BA.										
50	R6	26	44	61	red pine	immature	thinning	1		
comnts Fmd : RPINE PLANTATION- PORCUPINE DAMAGE, THIN EVERY 3RD ROW. This stand was part of Rugged Red Pine #039-97-01 thinned from 1998 to 2000. Do an individual marking. Also remove the all Jack pine along west edge.										
53	A9	19	48	58	aspen (upland)	mature	final harvest	1	natural regeneration	
comnts Fmd : Trillium, large-leaved aster, witch hazel. Sugar maple in the ground cover. Nice healthy log size american elm. Have a bout a 20 foot drop in terrain and appears to be a little more wetter. Start finding dogwood trees.										
55	R6	35	44	58	red pine	immature	thinning	1		
comnts Fmd : OLD PLANTATION W/ HEAVY MORTALITY. Stand has been third row thinned, found a few Rp seeling 6-8" high (not many). Heavy porcupine damage in areas. Small pocket aspen TA (34 trees). Need to individual mark stand.										
69	R6	3	50	62	red pine	immature	thinning	1		
comnts Fmd : Do an individual marking to 110 BA.										
70	R6	11	50	62	red pine	immature	thinning	1		
comnts Fmd : Added a little strip of scotch pine along county road.										
71	R6	51	50	62	red pine	immature	thinning	1		
comnts Fmd : Has been third thinned, need to put some dia growth, have self-pruned. Bracken fern and hardwood seedling NE corner.										
401	G0	31			grass	nonstocked		0	other - specify in remarks	
comnts Fmd : Was part of the old orchard. Mix grasses cherry and old apple trees. Need to a prescribed burn to promote nature plant species, and prune the apple trees. Need to prune the apple trees to prolong their life and increase food production.										
404	G0	175			grass	nonstocked		0	other - specify in remarks	
comnts Fmd : LARGE GRASSY OPENING. Mix of Grasses/lichen. Big and little blue stem, bracken fern, blackberry, goldenrod and small clumps of cherry and service berry. Single large mature black cherry trees scattered around. Need to prune the apple trees to prolong their life and increase food production. Need to to a prescribed burn to promote nature plant species, and prune the apple trees										
415	G0	29			grass	nonstocked		0	cleaning & weeding	
comnts Fmd : Mostly grass a few large dia maple along edge some pine and beech cherry. Need to block the road. Aspen filling in both sides. Stand contains a couple of aspen clones. Survey marker along private line (FJA RLS-21266). From the pre-review wild wants to maintain as need by mowing and fertilization.										

GRAYLING FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 215 **Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
421	G0	40		61	grass	nonstocked		0	other - specify in remarks	
comnts Fmd : LARGE GRASSY OPENING- MANAGE FOR WILDLIFE- LEVEL TERRAIN. Little bluestem scattered cherry with apple and hawthorn. A few small clumps of TA. Need to to a prescribed burn to promote nature plant species, and prune the apple trees. Need to prune the apple trees to prolong their life and increase food production.										
422	G0	7		61	grass	nonstocked		0	pruning	
comnts Fmd : Grassy area with scattered pin cherry, sumac, grolldenrod, raspberry and milkweed. A small area south end with planted apple trees. Need to to a prescribed burn to promote nature plant species, and prune the apple trees. Need to prune the apple trees to prolong their life and increase food production.										
Total Acres.....		615								

GRAYLING FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 215 Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
8	A5	2	53	56	white pine	two aged		0	natural regeneration	

TREATMENT LIMITING FACTORS: Delayed treatment for age/size class diversity

comnts Fmd : VARIOUS ASPEN CLONES MOSTLY . WHITE PINE SCATTERED ABOUT FILLING IN.

24	A8	1	58	50	upland brush	sparse		0	natural regeneration	
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TREATMENT LIMITING FACTORS: Inferior quality

comnts Fmd : Small pocket of TA on its way out.

Total Acres..... 3

Field Map

Compartment 215
 T28N, R3W, Sec. 20, 29, 30
 County: Crawford
 Unit: Grayling
 YOE: 2007
 Acres: 1,533 GIS Calculated
 Stand Examiner: Patrick Potter
 Map Revised: 9/16/2005
 Map Phase: Pre-review

Legend

- ◆ RLS Corners
- Miris Corners
- Paved Roads
- County Gravel Roads
- - - Poor Dirt Roads
- - - Trails
- ⬡ State Highway
- Stand Boundary
- ▨ 048 - Natural Regeneration/Other
- ▩ 066 - Cleaning-weeding
- ▧ 086 - Pruning
- ▦ 098 - Other
- ▤ 146 - Final Harvest/Natural Regeneration
- ▣ 400 - Thinning
- ▢ 846 - Selection/Natural Regeneration

Name County Paved Roads
Name County Gravel Roads

N

