



**GRAYLING FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 207 ENTRY YEAR: 2007

GIS Compartment Acreage: 1891 County: Crawford

Revision Date: September 7, 2005

Stand Examiner: Patrick L. Potter

Legal Description: T27N R4W Sections 10, 11, 12, 13 and 14

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 Rubicon sands, with Grayling sands confined to the southeast quarter of section 13. Topography is mainly flat to rolling, with a few steeper hills in Section 13.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is comprised of large acreage in private ownership in sections 10 and 11. The remaining compartment consists of contiguous state ownership except for a few private parcels located in along U.S. 27. Stand 15 is a narrow strip surrounded by private. It is proposed this parcel (stand 15) be nominated for disposal. The New York Central railroad passes through section 11.

Unique, Natural Features: Within section 13 there are a few stands of natural red and white pine trees which stands which appear to have been by-passed during the logging era.

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

Special Management Designations or Considerations: Stands 49, 59 and 60 should be managed for large diameter trees.

Watershed and Fisheries Considerations: The AuSable River a designated nature river passes through section 11, but all frontages are privately owned.

Wildlife Habitat Considerations: With its diverse mix of pine, oak and aspen cover types, this compartment supports a variety of wildlife species including hare, grouse, turkey and deer.

Mineral Resource and Development Concerns and/or Restrictions: Sections 10 - 14, T27N-R4W, Crawford County. 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 are the Coldwater Shale and Marshall Sandstone. The Marshall was previously used as a building stone. Gravel pits are not located in the area, but potential is good on the upland areas. The compartment is leased for oil and gas development.

Vehicle Access: Access to sections 10, 11, and 12 in the compartment is adequate from the county and state highway roads, of Batterson, Howes Lake, Sandy Tr., Pratt, and U.S.-27. Section 13 has limited access, with only a few sandy two-tracks and snowmobile trail. The snowmobile trail serves as access for some private parcels to the north of the compartment providing private conflict with management of the snowmobile trail. Note: No legal access easement has been requested by private property owners to date.

Survey Needs: None at this time.

Recreational Facilities and Opportunities: The snowmobile trail number "7" runs through sections 12 and 13. Also the shore to shore riding/hiking trail runs along the north boundary of the compartment. The AuSable River passes through section 11, but all frontages are privately owned. In addition dispersed recreational use occurs throughout compartment. One primary use of the area is hunting, due to the excellent wildlife habitat in the vicinity.

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

Additional Compartment Information: Due to the compartment's high recreational potential, there are many opportunities for educational and visual management. Eighty acres in section 12 was acquired in 1998, and contains two structures in need of removal. There is a non-designated bicycle trail made by local residents in section 11 stand #13.

LOTS Compartment Acreage: 1,890

- **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: 207

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		47	297	103	99	102		29		146									823
Bog or Marsh	3																		3
Grass	122																		122
Jack Pine				19				79											98
Mx Swmp Cnfr								29											29
Oak										103									103
Red Pine			21		3			159				31							214
Upland Brush	7																		7
Upland Hdwds		17		15	20					67								350	469
White Pine								3				20							23
Total	132	64	318	137	122	102		299		316		51						350	1891

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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: 207

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	754													69													823
V Bog or Marsh			3																								3
G Grass					122																						122
J Jack Pine							24									74											98
Q Mx Swmp Cnfr												29															29
O Oak														103													103
R Red Pine																196								18			214
U Upland Brush																								7			7
M Upland Hdwds	20																							449			469
W White Pine																										23	23
Total	774		3		122		24					29		172		270							25	449		23	1891

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

CRAWFORD COUNTY

COMPARTMENT: **207**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	14698 Cds	Hardwood	1067 Cds
Hardwood	3800 Mbf	Hardwood	607 Mbf
Softwood	4165 Cds	Softwood	980 Cds
Softwood	2187 Mbf	Softwood	367 Mbf
Sum TotVol	30837 Cds	Sum CutVol	3995 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	239
1891			

GRAYLING FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 207 **Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
13	R9	51	60	62	red pine	immature	thinning	1			
comnts Fmd : More white pine in the east and northeast part of stand. A non designated bicycle trail has been created through the stand. Should do a marked thinning reduce Total BA to 90.											
27	M4	20	29	64	aspen (upland)	immature		0	natural regeneration		
comnts Fmd : Witch hazel, bracken fern, and cherry . Stand was final harvested 1975, scattered red maple and oak were left, Stand is a mix of species need to wait and let natural regeneration occur. Will accept low stocking of mixed species.											
29	O9	15	83	58	oak	two aged	final harvest	1	natural regeneration		
comnts Fmd : Bracken fern, blueberry, service berry, sarsaparilla and witch hazel. A few nice pockets of BTA. Rolling terrain. Found some leaf rollers. Should think hard about removing the aspen, and hitting the oak hard. Will need to follow up with a burn within three years. If we are unable to complete precribed burn within three years of harvest, then will accept whatever natural regeneration occures on site.Do a final harvest but leave islands ranging in different sizes, about 1/5 of the acres should be left. Because red maple is a prolific seed producer fand readily re-sprouts after cutting and therefore, will not easily be displaced from the stand once it is established. Fire may be the best method to control competition. If we do nothing red maple and white pine will largely displace the less shade tolerant red pine, aspen, and oak on this sites. Natural regeneration will consist of a mix of aspen, oak and red maple.											
31	A9	22	85	67	aspen (upland)	mature	final harvest	1	natural regeneration		
comnts Fmd : Nice stand of mature aspen, hear or statring to show. A small pocket of hardwood in mid of stand. Star flower, and found a small hemlock with some oak seedlings. Northern hardwood regen under a mature aspen stand. Eastern edge of this stand transitions into the M6 stand and the true type line would be subject to change depending on what our management philosochy is when the stand I put up											
33	M6	51		60	northern hardwood	two aged	thinning	3			
comnts Fmd : This is a variable stand of northern hardwoods. The edges of the stand have quite a bit of aspen mixed n but still should be managed for hardwoods. The north end was thinned for firewood back in 1986 but only a small amount was removed. This stand is not top notch stuff but it has potential. Some areas are spotty while others are more of a true northern hardwoods. Aspen has some heart rot, with scattered red pine super canpy and no oak regen. Beech regen 5' height with very little sugar maple above ground cover. Tripped over an old wire fence.											
45	A9	26	85	68	aspen (upland)	mature	final harvest	1	natural regeneration		
comnts Fmd : Tall aspen. Understory is mostly beech and red maple. Kotar= solomon's seal, star flower and witch hazel. Red maple waiting. After harvesting allow natural regeneration to take place. Should regen heavily to aspen with some red maple and other species. Will accept what ever come back. Heart rot developing.											
57	J6	74	67	52	red pine	two aged	selection	1	natural regeneration		
comnts Fmd : Stand was planted 1938 to a mix of jack pine and red pine . Bracken fern, sedge and blueberry. Recommend harvest all jack pine leave red pine which has a nice mix of age and size class (some super canpy and on) let natural regen take place what comes in comes in. Small pocket of TA north edge some red pjne mixed in. Will accept low stocking of mixed species. If stocking is not adquate by the next YOE then recommend maching planting a mix of red and jack pine.											
Total Acres.....		259									

GRAYLING FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 207 Entry Year: 2007

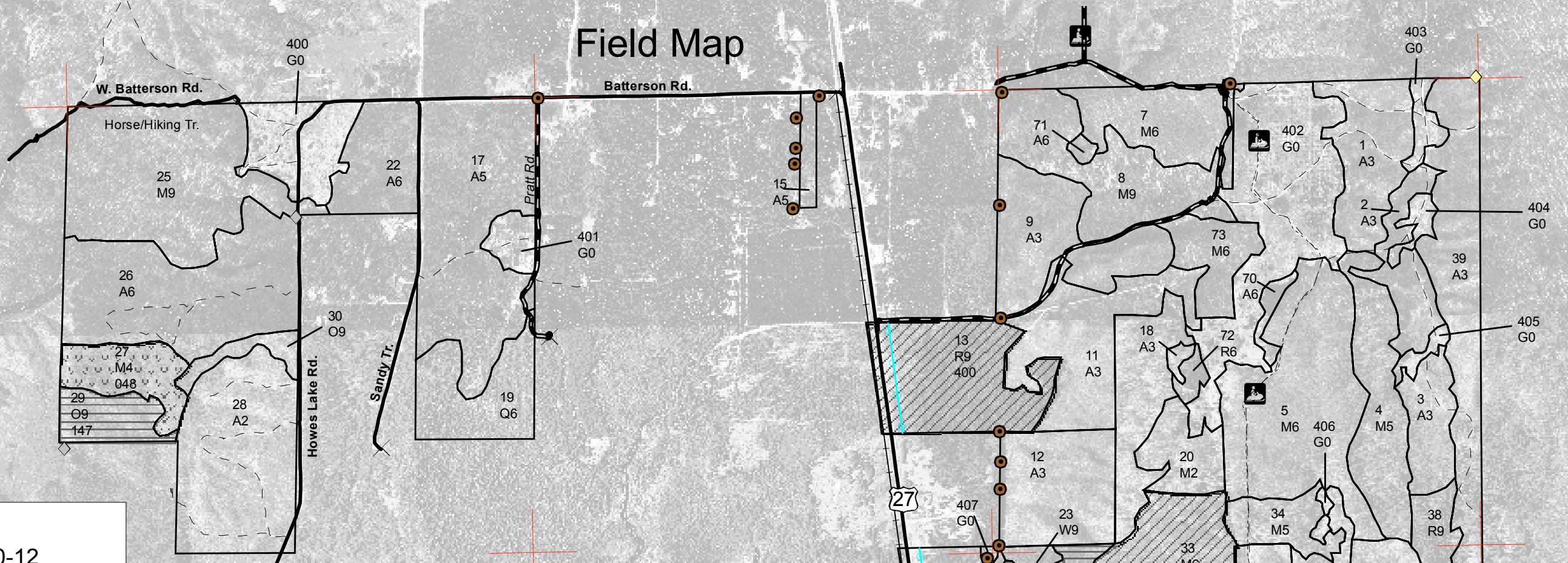
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
60	R9	11	101	64	red pine	two aged		0	cleaning & weeding	

TREATMENT LIMITING FACTORS: Scenic values/visual values

comnts Fmd : Big trees! Witch hazel some oak regen, heavy understory of red maple. Lots of white pine and red maple regen 5-8' tall. This stand was thinned in 1986 st the same time the stand to the north was. This stand has very little big white pine trees, but does have some scattered oak remaining everything is nice quality stuff. We should manage for big trees. Will need to make stand more visual, red maple along U.S.-27 need to be removed. Could make this into a natural area.

Total Acres..... 11

Field Map



Compartment 207
 T27N, R4W, Sec. 10-12
 County: Crawford
 Unit: Grayling
 YOE: 2007
 Acres: 1,891 GIS Calculated
 Stand Examiner: Patrick Potter
 Map Revised: 9/15/2005
 Map Phase: Pre-review

Legend

- RLS Corners
- Miris Corners
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Trails
- Railroads
- Power Lines
- Red Top Posts
- Iron Pipe
- Gates
- Snowmobile Trails
- U.S. Highway
- Stand Boundary
- 048 - Natural Regeneration/Other
- 066 - Cleaning-weeding
- 146 - Final Harvest/Natural Regeneration
- 147 - Final Harvest/Natural Regeneration/Prescribed Burning
- 400 - Thinning
- 846 - Selection/Natural Regeneration

Name Paved Roads
Name Gravel Roads
Name Trails

