GRAYLING FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 07 ENTRY YEAR: 2008

GIS Compartment Acreage: 2,025 County: Oscoda (Greenwood Township)

Revision Date: 7/6/2006

Stand Examiner: Lucas Merrick

Legal Description: T27N, R01E, Sections 3, 4, 9, 10
T28N, R01E, Section 33

Management Goals: To improve forest health, productivity, sustainability, species and structural diversity throughout the State of Michigan by actively managing flora and fauna, while providing for multiple use and visual management.

Soils and Topography: The area consists of gently rolling terrain, separated by Wright Creek and the East Branch of Big Creek. Soils are sandy, with Grayling, Graycalm, and Grayling-Graycalm sands. These soil types are excessively drained.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is found in Oscoda County, Greenwood Township. The area around compartment 7 consists of mostly public land with scattered tracts of private land of various sizes. The compartment is about 2/3 public ownership. Private ownership is a mix of year-round and seasonal.

Unique, Natural Features: The state threatened rough fescue (Festuca scabrella) and prairie or pale agoseris (Agosersis gluaca) are known to occur in the area. Hill's thistle (Cirsiunm hillii) and Alleghany plum (Prunus alleghaniensis var. davisii) are two species of special concern with potential to appear throughout the compartment. Currently there are no known Ecological Reference Areas in this compartment.

Archeological, Historical, and Cultural Features: The compartment contains a logging flume and associated features.

Special Management Designations or Considerations: The East Branch of Big Creek is a "Natural River". Natural Rivers are High Conservation Value Areas (HCVA's). All stands found within 400' feet of these rivers are also considered HCVA's. Big Creek and Muskrat Kirtland's Warbler Management Units surround the compartment. These management units - which are HCVA's - may affect some timber sale timelines.

Watershed and Fisheries Considerations: East Branch Big Creek and Wright Creek are designated trout streams. Management for aspen near the stream riparian zones should be minimized to discourage beaver damming. All activities should follow appropriate "Natural Rivers" setbacks.

Wildlife Habitat Considerations: There is the potential for dusted skipper, grizzled skipper, and red legged spittle bug to occur in grassy openings. Secretive locust may occur in bog habitat and surrounding uplands.

Blanding's turtle, wood turtle, and massasauga rattlesnake have potential to be found along the drainage ways.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 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 not located in the area, but potential is good. Section 33 is leased for oil and gas development.

Vehicle Access: Farrington, Town Hall, Granger, Pine Haven, Pine Ayre, and 489 are County Roads which intersect the compartment. The majority of trail roads are in good condition, passable with 2-wheel drive vehicles. The trail road in Section 4 is a public easement allowing access to State owned lands west of Wright Creek.

Survey Needs: None at this time.

Recreational Facilities and Opportunities: The compartment contains Snowmobile Trail #4 – The Red Oak/Lovell's/Lewiston Trail runs on Granger and Town Hall roads. The East Branch of Big Creek and Wright Creek are designated trout streams that flow through the compartment. Dispersed recreational use is evident throughout area.

Fire Protection: Access in this compartment is not a concern for wildfire protection. Section 33 north of the river has a high acreage percentage of immature jack pine. The rest of the compartment is a mixture of aspen, oak and mixed pine of various age classes. The two rivers and intersecting County Roads provide excellent fuel breaks. The creeks also provide adequate water sources for suppression needs.

Additional Compartment Information: A public ingress and egress easement is located in section 4.

- **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 biodiversity/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: **7**

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			296	37	350	118			21			48							870
Black Spruce					8							53							61
Bog or Marsh	54																		54
Jack Pine		46	128		145			77	122										518
Lowlnd Brush	46																		46
Mx Swmp Cnfr							6					65							71
Oak					6			6	20	125									157
Red Pine			38			47		49	12	3	2								151
Spruce Fir					4														4
Upland Brush	6		11																17
Upland Hdwds		19																	19
White Pine					7		28			10			12						57
Total	106	65	473	37	520	165	34	132	175	138	2	166	12						2025

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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: **7**

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	858																									12	870
S Black Spruce		61																									61
V Bog or Marsh			54																								54
J Jack Pine							453									36										29	518
L Lowlnd Brush									46																		46
Q Mx Swmp Cnfr												71															71
O Oak														157													157
R Red Pine																151											151
F Spruce Fir																			4								4
U Upland Brush																							17				17
M Upland Hdwds																								19			19
W White Pine																										57	57
Total	858	61	54				453		46			71		157		187			4				17	19		98	2025

AUSABLE STATE FOREST | GRAYLING FOREST MGT UNIT | OSCODA COUNTY | COMPARTMENT: **7**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY

TOTAL VOLUME		CUT VOLUME	
Hardwood	6002 Cds	Hardwood	977 Cds
Hardwood	906 Mbf	Hardwood	231 Mbf
Softwood	5820 Cds	Softwood	1787 Cds
Softwood	2304 Mbf	Softwood	259 Mbf
Sum TotVol	18242 Cds	Sum CutVol	3744 Cds

Total Cmpt Acres

2025

Acres Proposed For Cut..... 244

GRAYLING FOREST MGT UNIT | **Proposed Treatments With NO Limiting Factors** | **Compartment: 7** | **Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
3	**R6**	47	42	50	red pine	immature	thinning	2		

comnts Fmd **:** Stand is variable. Small diameter red pine plantation planted around pockets of jack pine. Jack pine pockets vary in maturity and BA. South part of stand has pockets of sawlog size red pine 90+ yrs of age 18+ dbh. Thin red pine and remove all other species - leave healthy oak. Third row thin where possible, mark individually where rows not evident. Aspen also found in stand. Try to keep BA in 90 range. Perscription is intended to improve quality of current timber type.

25	**A6**	19	76	54	aspen (upland)	mature	final harvest	2		

comnts Fmd **:** Final harvest. Leave clumps of scatterd oak for visual and wildlife. Majority of oak established through stump sprouts so it is in clumps. White pine seedlings may begin to establish from seed sources to the west of stand. Leave scattered high stumps for wildlife and apply down and dead rabbit specs. Management objective is aspen but will accept any natural regeneration of red maple, jack pine, white pine, oak, and aspen that will provide for sufficient stocking to meet the regeneration needs of stand. If overall stocking level of stand is determined to be insufficient, the stand will be artificiall regenerated to mixed pine.(old comments) HOLD TIL NEXT TIME. MIX OF OAK, RED MAPLE, ASPEN.

30	**O9**	20	76	58	oak	mature	final harvest	2		

comnts Fmd **:** Oak looks good for age. Nice red pine. Would like to get some oak stump sprout regeneration. Leave several small pockets of oak for mast and visual. Leave some red pine for vertical structure as well. Browse WILL be a concern if treated. Management objective is oak but will accept any natural regeneration of aspen, oak, red maple, jack pine, red pine, white pine that will provide for sufficient stocking. If stand fails to meet regeneration standards, the stand will be artificially regenerated to a jack pine/red pine mixture.

33	**J6**	52	63	48	jack pine	low quality	final harvest	2	planting	

comnts Fmd **:** Poor quality stand. Leave a narrow buffer strip along 489 (50 ft). Replant to jp around any natural regen. Leave red pine. Some natural oak regen 1-2" in diameter (protect). The west edge of stand along stand 32 has more of a oak aspen component and is of better quality and should provide pockets of natural regen.

40	**J6**	29	74	50	white pine	mature	shelterwood-seed	2	natural regeneration	

comnts Fmd **:** Shelter wood w/ reserves. Stand has about 30 BA of red and white pine with an established white pine understory. Remove all jack pine. Leave some aspen for wildlife trees. Protect the understory and residual. I would like to have this stand look like stand 42 in the future. This prescription is intended to create a natural white and red pine stand using the trees left from the harvest as a seed source. Management objective is white pine but will accept any combination of natural regeneration consisting of red pine, jack pine, oak, aspen, and maple that will provide for sufficient stocking to meet the regeneration needs of the stand. If the stands overall stocking level is determined to be insufficient, the stand will be artificially regenerated to a jack pine/red pine mix.

50	**A6**	12	100	60	white pine	immature	shelterwood-seed	3	natural regeneration	

comnts Fmd **:** Remove all aspen and red maple east of power line- leave white and red pine. Potential for wet conditions in stand. Harvest w/ stand 53. There could be an opportunity to manage for big pine here. Perscription is intended to promote natural pine regeration using the remaining trees and adjacent stands as seed sources. The management objective is white pine with pockets of aspen and red maple but, will accept any combination of red pine, white pine, jack pine, aspen, maple or oak that will provide for sufficient stocking to meet regeneration needs of stand. If overall stocking level is determined to be insufficient, the stand will be artificially regenerated to white pine.

52	**A9**	2	74	48	aspen (upland)	mature	final harvest	2		

comnts Fmd **:** Good looking pocket of aspen, cut with stand 53. It should regenerate fast. Leave a few high stumps and some downed woody debris for wildlife. Management objective for this stand is aspen but will accept any natural regeneration of aspen, jack pine, red pine, white pine, or maple that will provide for sufficient stocking to meet regeneration needs of the stand. If the stands overall stocking level is determined to be insufficient, the stand will be artificially regenerated to red pine.

53	**J6**	36	74	48	red pine	mature	final harvest	1	planting	

comnts Fmd **:** Good white pine regen. Heavy browse on hdwd regen. Some budworm damage. Some decline. Final harvest. Replant to red pine and jack pine around regen.

76	**J6**	16	63	42	jack pine	mature	final harvest	2	planting	

comnts Fmd **:** Leave some oak and red pine for visual. Plant back to jack pine around natural regen.

80	**J9**	7	61	50	jack pine	mature	final harvest	2		

comnts Fmd **:** Treat with stand 3. Some bud worm. Management objective is jack pine but will accept any natural regeneration of aspen, red pine, oak, and jack pine that will provide for sufficient stocking to meet the regeneration needs of the stand. If the stands overall stocking level is determined to be insufficient, the stand will be artificially regenerated to jack pine.

81	**R6**	4	66	54	red pine	immature	thinning	2		

comnts Fmd **:** Small stand - was not typed out last YOE. Thin w/ adjacent cuts. This stand will provide vertical structure for surrounding area while regeneration is being established in adjacent stands.

Total Acres..... **244**

10/23/2006

Proposed Treatments With Limiting Factors

Compartment: 7 **Entry Year: 2008**

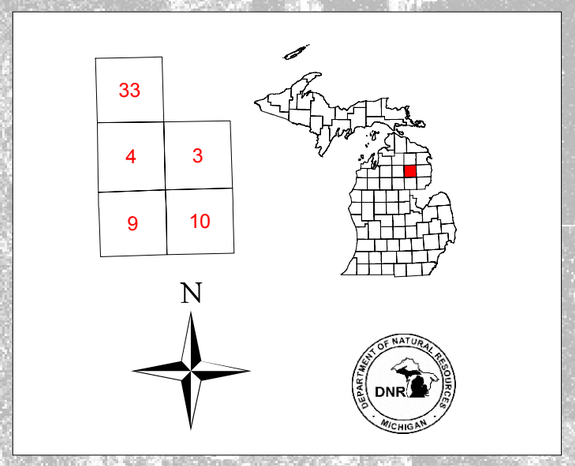
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status

TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 7
T27N, R01E, Sec. 3-4, 9-10
T28N, R01E, Sec. 33
County: Oscoda
Unit: Grayling
YOE: 2008
Acres: 2,025 GIS Calculated
Stand Examiner: Lucas Merrick
Map Revised: 7/17/2006
Map Phase: Pre-review



Legend

- RLS Corners
- Miris Corners
- County Gravel Roads
- Gravel Roads
- Poordirt Roads
- Snowmobile Trails
- Powerlines
- Water Features
- Snowmobile Trails
- Stand Boundary
- Biodiversity/Old Growth Area
- 100 - Final Harvest
- 116 - Final Harvest/Planting
- 346 - Shelterwood-seed/Natural Regeneration
- 400 - Thinning

Far rington Rd
E. Branch Big Cr
Co. Rd 489
Town Hall Rd
Gra nger Rd
Wri ght Cr
Pine Haven Rd

1 0.5 0 1 Miles