



GRAYLING FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 073 ENTRY YEAR: 2008

Compartment Acreage: 1,482 County: Iosco

Revision Date: 06/15/2006

Stand Examiner: Patrick L. Potter

Legal Description: T24N R08E Sections 11-14, 23-26

Management Goals: To maintain forest health, productivity, sustainability, species diversification, and structural diversity throughout the compartment while providing for multiple use and visual management. The overall management objective will be to reproduce the entire swamp over a 100 year period, primarily to benefit deer and other wildlife species. Cedar regeneration is a priority.

Soil and Topography: Soils consists of Tawas and Deford mucks, Dawson peat, and Au Gres and Ingalls sands. Major management concerns include tag alder succession, cedar seedling mortality, equipment operation limitations and wind-throw. The seasonal high water table restricts equipment use to midsummer when the soil is dry or midwinter when the soil is frozen-over or has adequate snow cover.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The state ownership is solid, except for approximately 120 acres of private ownerships within section 24. The state land is heavily used for hunting as well as other forms of dispersed recreation.

Unique, Natural Features (include only non-site specific and non-sensitive information): There are records of two special concern plants: Alleghany plum (*Prunus alleghaniensis* var. *davisii*) in section 14 and Ram's Head Lady's-slipper (*Cypripedium arietinum*) in section 23. The Eastern massasauga rattlesnake (*Sistrurus catenatus catenatus*) and Secretive locust (*Appalachia arcane*) have been observed within the compartment.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): None known.

Special Management Designations or Considerations: The Seven Mile Hill Swamp Management Plan. Cedar will be encouraged through cultural practices and where practicable, conversion from a swamp conifer mixture to a cedar type will be attempted. It is imperative to wildlife management that any reproductive-type cutting should result in regeneration of swamp conifers, preferably cedar.

Watershed and Fisheries Considerations: None known at this time.

Wildlife Habitat Considerations: The compartment is considered a very important deer yard for white-tail deer (*Odocoileus virginianus*) and snowshoe hare (*Lepus americanus*).

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of fine-textured glacial till. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Coldwater Shale. There is not a current economic use for the Coldwater Shale. Gravel pits are located to

the north, but the wetland area would have limited potential. This compartment is not currently leased for oil and gas development.

Vehicle Access: Access is limited. There are many trails leading to the outside edge of the compartment.

Survey Needs: None at this time.

Recreational Facilities and Opportunities: No designated trails occur within the compartment. There are designated ORV and snowmobile trails in the adjacent compartments.

Fire Protection: No timber conversion is needed at this time.

LOTS Compartment Acreage: 1482

Additional Compartment Information:

- **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

IOSCO COUNTY

COMPARTMENT: 73

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
S Black Spruce		24																									24
C Cedar				1236																							1236
Q Mx Swmp Cnfr												22															22
E Swamp Hrdwds																				53							53
T Tamarack																						110					110
W White Pine																										37	37
Total		24		1236								22								53	110					37	1482

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

IOSCO COUNTY

COMPARTMENT: **73**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	1641 Cds	Softwood	717 Cds
Hardwood	2 Mbf	Softwood	128 Mbf
Softwood	19274 Cds	Sum CutVol	973 Cds
Softwood	1770 Mbf		
Sum TotVol	24459 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	
1482		71	

**Proposed Treatments
With NO Limiting Factors**

Compartment: 73

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
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Total Acres..... 0

GRAYLING FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 73

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
28	C6	71	96	28	cedar	mature	shelterwood-prep	2		

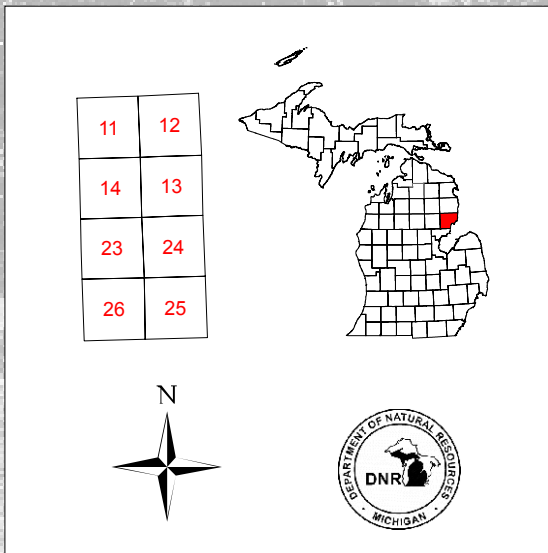
TREATMENT LIMITING FACTORS: Deer yards
Too wet

comnts Fmd : Lots of down and dead. Not as wet as some of the other stands, but there are pockets of heavy saturated soil with black spruce regeneration and tag alder. Nice straight stem, with no visible regeneration of cedar. A little wetter area as you go east. Of all the stand I have looked at I would think of thinning this one stand. "SCA- The Seven Mile Swamp, It is considered a very valuable deeryard and has been identified by both Wildlife and Forest, Mineral, and Fire Management, as a separate management compartment with wildlife being the key value."
WITHIN STAND DO VARIABLE RETENSION (DO ISLANDS WITH 80-100 BA ALONG WET AREA AND THE EDGE) MARK THE REST TO 60 BA.

Total Acres..... 71

Field Map

Compartment 73
 T24N, R08W, Sec. 11-14, 23-26
 County: Iosco
 Unit: Grayling
 YOE: 2008
 Acres: 1,482 GIS Calculated
 Stand Examiner: Patrick Potter
 Map Revised: 10/17/2006
 Map Phase: Pre-review



Legend

- RLS Corners
- Miris Corners
- Closed Roads
- Trails
- Stand Boundary
- 700 - Shelterwood-prep

