



**GRAYLING FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 004 ENTRY YEAR: 2008

Compartment Acreage: 1849 County: Oscoda

Revision Date: 06/15/2006

Stand Examiner: Patrick L. Potter

Legal Description: T27N R01E Sections 15, 22-24, 3

Management Goals: To maintain forest health, productivity, sustainability, species diversification, and structural diversity throughout the compartment while providing for multiple use and visual management. In addition, to maintain a healthy habitat for the endangered species *Dendroica kirtlandii* (Kirtland's Warbler), taking into account warbler management plan directives, species diversity, and visual management.

Soil and Topography: Soils consist of well-drained Grayling, Rubicon, and Roselawn sands. The low wetland areas contain Lupton muck and Au Gres sand.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The state ownership is fairly solid, with private ownerships within and adjacent to the compartment. Private land ranges from full-time residences to summer homes and hunting camps. The state land is heavily used for hunting as well as other forms of dispersed recreation. Cover types are more varied than is typical in compartments with Kirtland's Warbler habitat.

Unique, Natural Features (include only non-site specific and non-sensitive information): There is the potential for dry prairie plants such as Hill's thistle, rough fescue, Alleghany plum and pale agoseris to be found in grassy openings and open jack pine stands. There is also the potential for dusted skipper, grizzled skipper, and red-legged spittlebug to occur in grassy openings.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): No known occurrences at this time.

Special Management Designations or Considerations: Kirtland's Warbler habitat, Muskrat Lake Management Block.

Watershed and Fisheries Considerations: None.

Wildlife Habitat Considerations: Kirtland's Warbler habitat, Muskrat Lake Management Block.

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 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 three miles to the south and potential is good. The Compartment is not leased for oil and gas development at this time, but there are leases to the east.

Vehicle Access: Access is excellent. County roads 608 and 489 are heavily traveled, making visual management a priority. In addition, there is access to the compartment's interior via two-track roads.

Survey Needs: None.

Recreational Facilities and Opportunities: Section 15 has a well-used snowmobile trail parking lot and is often used as a commuter lot as well. The Roll Trail Loop snowmobile trail runs through sections 15 and 22 and is heavily used. The Muskrat Lake snowmobile trail begins at the snowmobile parking lot in section 15 and is also heavily used. No additional facilities are needed.

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

LOTS Compartment Acreage: 1849

Additional Compartment Information: Some illegal ORV use is occurring in sections 15 and 24. Resource Damage Reports have been submitted, and maps showing the locations have been forwarded to Conservation Officers.

- **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

OSCODA COUNTY

COMPARTMENT: 4

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	212																										212
S Black Spruce		15																									15
G Grass					3																						3
J Jack Pine							1116						27														1143
L Lowlnd Brush									3																		3
N Marsh											5																5
Q Mx Swmp Cnfr												39															39
X Non Stocked													3														3
O Oak														57													57
R Red Pine							221									46											267
F Spruce Fir																			19								19
T Tamarack																						4					4
M Upland Hdwds																								11			11
Z Water																									9		9
W White Pine																										59	59
Total	212	15			3		1337		3		5	39	3	84		46			19		4			11	9	59	1849

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

OSCODA COUNTY

COMPARTMENT: 4

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	1611 Cds	Hardwood	6 Cds
Hardwood	369 Mbf	Hardwood	8 Mbf
Softwood	5589 Cds	Softwood	2323 Cds
Softwood	3417 Mbf	Softwood	2375 Mbf
Sum TotVol	14772 Cds	Sum CutVol	7095 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	321
1849			

GRAYLING FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 4

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
22	R9	8	75	57	red pine	mature	shelterwood-seed	1		
comnts Fmd : No red pine regeneration. Stand along county road 608, Shelterwood harvest mark to leave 30 BA of Red pine. The management objective is red pine but will accept any combination red pine, aspen, oak, and jack pine that will provide for sufficient stocking to meet the regeneration needs of the stand. If the stands overall level is determined to be insufficient, the stand will be artificially regenerated to red pine. A couple of small finger of red pine enter into the adjacent A3 stand.										
25	J0	229	3	50	jack pine	in process of regeneration		0	planting	
comnts Fmd : (KW - CUT ONLY IF NEEDED FOR NEW KW PLAN. SNOW TRAIL BISECTS. Stand was put up for sale #013-98-01, only one unit (unit 5) 35 acres was cut, contractor went out of business. Rest of the stand has been put up for sale again #022-00-01. Stand final harvested by Inman forest products spring of 2003.) FTP # 72-483 submitted to plant to KW JP includes both cut areas. 01/06/2004 mm										
31	J6	20	28	49	jack pine	immature	final harvest	1	planting	
comnts Fmd : Under tsale 21-77A, all JP 1 stick or more was harvested. Young stand at this time. Part of the kirtland's Warbler habitat, Muskrat Lake Management Area. DO NOT TREAT STAND UNTIL 2013 PER WILDLIFE.										
32	R9	67	84	50	jack pine	mature	final harvest	1	planting	
comnts Fmd : Stand diameter for rp sawlogs ranges from 10-18". Pole timber is 7-9". Understory consists of O1/O2/W1. Some porcupine damage, nothing heavy. Stand is mature and should be thinned. Leave all jack pine, for wildlife needs. Follow the Muskrat Lake Management Plan. DO NOT TREAT STAND UNTIL 2013 PER WILDLIFE.										
33	R9	61	75	52	jack pine	mature	final harvest	1	planting	
comnts Fmd : KW MUSKRAT LAKE MGT AREA. PRUNED 1984, RELEASED IN 1978. Short height overall with live branches halfway up tree. Could remove 14-16" trees. Lower BA to 50 square ft/acre by removing larger diameter red pine. Overall, not a great site for red pine. DO NOT TREAT STAND UNTIL 2013 PER WILDLIFE.										
34	J6	16	39	49	oak	two aged	final harvest	2		
comnts Fmd : Appears to be 2 ages of JP. Should remove all JP >6" while leaving all oak. Heavy blueberry and bracken fern, some deer browse on oak. Protect all regeneration. Mark to leave (JP) a strip 2 chains wide along CR 608. Leave a BA of approximately 40 square ft/acre within this strip. Winter cut. The Management Objective is Oak but will accept any combination of oak, jack pine, red pine, aspen that will provide for sufficient stocking to meet the regeneration needs to the stand. If the stand's overall stocking level is determined to be insufficient, the stand will be artificially regenerated to jack pine.										
35	R9	72	76	50	jack pine	mature	final harvest	1	planting	
comnts Fmd : Follow the Muskrat Lake Management Plan. Very branchy with some dwarf mistletoe present. Stand was opened up in 1978, there is a greater amount of red pine regeneration in the understory than adjacent stand. DO NOT TREAT STAND UNTIL 2013 PER WILDLIFE. Per wildlife request move the boundary line up to 2 chains into stand 37. Treat the edge of stand 37 when putting in the boundary line.										
36	R9	21	75	50	jack pine	immature	final harvest	1	planting	
comnts Fmd : Open with little understory. Follow the Muskrat Lake Management Plan. DO NOT TREAT STAND UNTIL 2013 PER WILDLIFE. Heavier JP along CR-608. Red pine currently not utility pole quality with the exception of a few individuals. Some scattered oak in the pole-size class.										
46	J6	3	29	56	jack pine	mature	final harvest	1	planting	
comnts Fmd : Nice oak regeneration. Lot's of JP dead, standing and on the ground. ORV and motorcycle trail through stand. Bait Pile and the northwest corner. Found 1/2" re-rod concrete. DO NOT TREAT STAND UNTIL 2013 PER WILDLIFE. Follow the Muskrat Lake Management Plan.										
47	J6	11	68	56	oak	mature	final harvest	1	natural regeneration	
comnts Fmd : Private interface, 1/2" re-rod. First house off CR-608 is mowing yard, possible trespass. Pat P. will be following up with a trespass report. Oak regeneration is approximately 5-20' tall. Aspen is in bad shape and most of oak has been cut so the regeneration present is of stump sprout origin. Cut all Jack pine 6" and larger protect all regeneration, and leave all red pine, Fall and winter harvest only help to protect the oak regeneration. The Management Objective is Oak but will accept any combination of oak, jack pine, red pine, aspen that will provide for sufficient stocking to meet the regeneration needs to the stand. If the stand's overall stocking level is determined to be insufficient, the stand will be artificially regenerated to jack pine.										
48	J6	24	29	56	jack pine	two aged	final harvest	1	planting	
comnts Fmd : A few scattered red pine and oak. JP, small diameter overall. Oak regeneration is approximately 5-20' tall. Aspen is in bad shape and most of oak has been cut so the regeneration present is of stump sprout origin. Follow the Muskrat Lake Management Plan, but DO NOT TREAT STAND UNTIL 2013 PER WILDLIFE.										
49	J5	10	29	56	jack pine	two aged	final harvest	1	planting	
comnts Fmd : Two-aged stand, more regeneration than anything else. Scattered mature JP and oak with a healthy JP understory. Some open pockets and scattered pockets of cherry brush. Porcupine damage on some trees. Some dead tops throughout stand. Follow the Muskrat Lake Management Plan, but DO NOT TREAT STAND UNTIL 2013 PER WILDLIFE.										

GRAYLING FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 4

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
250	J5	8	29	56	jack pine	immature	final harvest	1	planting	

comnts Fmd : White pine in understory, some scattered aspen throughout stand. Follow the Muskrat Lake Management Plan, but DO NOT TREAT STAND UNTIL 2013 PER WILDLIFE.

Total Acres..... 550

**Proposed Treatments
With Limiting Factors**

Compartment: 4

Entry Year: 2008

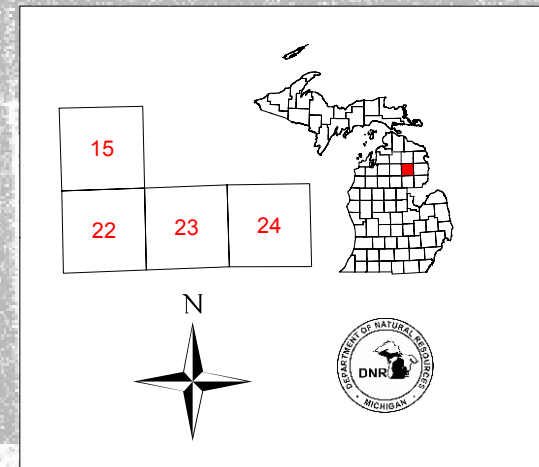
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 4
 T27N, R01E, Sec. 15, 22-24
 County: Oscoda
 Unit: Grayling
 YOE: 2008
 Acres: 1,849 GIS Calculated
 Stand Examiner: Patrick Potter
 Map Revised: 10/17/2006
 Map Phase: Pre-Review



Legend

- Miris Corners
- County Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Un-authorized Roads
- Trails
- Snowmobile Trails
- Stand Boundary
- 016 - Planting
- 100 - Final Harvest
- 116 - Final Harvest/Planting
- 146 - Final Harvest/Natural Regeneration
- 300 - Shelterwood-seed

Stands 31, 33, 35, 36, 46, 48, 49 and 250
 will be treated in 2013 as part of the Kirkland Warbler
 Management Plan.

