

GRAYLING FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 008 ENTRY YEAR: 2012

GIS Compartment Acreage: 1922 County: Oscoda

Revision Date: 8/20/2010

Stand Examiner: Patrick L. Potter

Legal Description: Oscoda County – Greenwood Township, T27N R01E Sections 11, 12, 13 and 14.

Management Goals: To maintain forest health, productivity, sustainability, and diversity throughout the compartment while providing for multiple use within the area. 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.

Soils and Topography: Flat to gently rolling hills. Soils are mostly well-drained Grayling sand with some organic soils consisting of Rifle and Greenwood peat.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Mostly solid state ownership occurs in and around the compartment. There are several private ten acre parcels in the NE1/4 of section 11 and a privately owned forty acres in the SWSW. Section 14 has four ten acre private parcels in the NWNW. Section 13 has an eighty acre private parcel in the SE1/4.

Unique, Natural Features: Kirtland's Warbler (Dendroica kirtlandii) an endangered species and pale Agoseris (Agoseric glauca), a state threatened species are found in this compartment

Archeological, Historical, and Cultural Features: None known at this time

Special Management Designations or Considerations: The Muskrat KW Management Blocks 4, 15, and 22 are located within this compartment and are designated as a High Conservation Value Area (HCVA).

Watershed and Fisheries Considerations: None at this time

Wildlife Habitat Considerations: The east side of section 11 is a large deer yard and has a high water table.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of icecontact outwash sand and gravel. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift is the Coldwater Shale. There is not an economic use for the Coldwater Shale. The nearest gravel pit is four miles to the south, and gravel potential is thought to be limited. None of the State land in the compartment has been leased for oil and gas development. The Antrim Shale is the main producing formation in the area.

Vehicle Access: The compartment can be accessed using county roads. Oil and gas right-of-ways provide multiple access opportunities for wheeled vehicles and foot traffic.

Survey Needs: No survey requests are needed.

Recreational Facilities and Opportunities: The Muskrat Lake Snowmobile Trail # 4 and #4/9 runs through section 14 and between sections 12 & 13.

Fire Protection: This compartment contains "high hazard" fuel types, but access should be adequate for suppression activities.

LOTS Compartment Acreage: 1920

- > The following reports are available:
 - Cover Type by Age Class
 - Proposed Treatment Summaries
 - Dedicated Conservation Area Details
 - Listing of Forested Stands
 - Listing of Non-Forested Stands
 - 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, recreation trails and facilities
 - Proposed treatments
 - Proposed road access system
 - Special Conservation areas



Compartment 008 T27N, R01E, Sec. 11-14 County: Oscoda Unit: Grayling YOE: 2012 Acres: 1,922 GIS Calculated Stand Examiner: Patrick Potter Map Revised: 8/03/2010 Map Phase: Pre-Review

Stand # Stocking 23 Density (412)0) - A7 Level 3 Ol Level 4 Code Cover Type Code

Legend

Miris Corners
 Paved Roads
 County Gravel Roads

– – Poor Dirt Roads

- Power

····· Trails

MCCCT Trails

Snowmobile Trails

Stand Boundaries

Forest Stands

Level 3

421 - Planted Pines

422 - Natural Pines

612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

310 - Herbaceous Openland

622 - Lowland Shrub

Stand Boundary Map

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12

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S. I

26 **4211**-F





Table 1 – Total Acres by Cover Type and Age Class

Grayling Mgt. Unit

Data updated before 2:00 PM

Compartment 008 Year of Entry 2012



	Age Class																
	Hor	Creation of the second	6°2	6 ^{7,0}	67.1 12	07. 07. 09.	10-10-10-10-10-10-10-10-10-10-10-10-10-1	5. 3. 3.	-0 ⁻⁰ -0-1	18	69. 69. 69.	63.	00,001 ·	611.01,	200× 370	Contraction of the second	000
Cedar	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	[
Herbaceous Openland	641	0	0	0	0	0	0	0	0	0	0	0	0	0	0	641	
Jack Pine	0	0	80	0	511	61	56	0	181	0	0	0	0	0	0	890	[
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	123	0	0	0	123	[
Lowland Spruce/Fir	0	0	0	0	0	0	23	0	89	0	0	0	0	0	0	112	[
Natural Mixed Pines	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	17	[
Red Pine	0	0	0	0	0	0	0	0	111	0	0	0	0	0	0	111	
Treed Bog	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	-
Total	666	0	80	0	511	61	97	0	380	0	0	126	0	0	0	1922	

Table 2 – Proposed Treatment Summaries

Data updated before 2:00 PM Grayling Mgt. Unit Compartment 008 Year of Entry 2012 Total Compartment Acres: 1922 Acres by Treatment Type Commercial Harvest - 802 Site Prep - 0 Tree Planting - 0 Prescribed Burn - 0 Other - 0 Habitat Cut - 0 Tree Seeding - 0 Pesticide - 0 **Opening Maintenance - 0 Cover Type by Harvest Method** Hand Street Steenen oo See 17ee Des Participation of the second secon Trining . Selection, U.S. ALLER Jack Pine 740 0 0 0 0 0 740 Lowland Spruce/Fir 0 23 0 23 0 0 0 Red Pine 0 0 0 39 0 39 0 39 802 Total 740 23 0 0 0

		G	rayling Mgt. Unit	. Unit Table 3 Treatments Prescribed Compartment: 0		Compartment: 008	800			
S t	Da	ta upda	ated before 2:00 P	M wi	th No L	imiting Fact	or	Year of Entry 2012		
a n d	Treatment Name	Acres	s Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status	
9	72008009-Cut	23.1	6122 - Black Spruce	High Density Pole	52	Harvest	Seed Tree	Black Spruce	Cmpt. Review Proposal	
Pres Spec	<u>cription</u> Seed tr <u>s:</u>	ee harve	est. Do not treat strip o	n the east side of R	uth Road	1.				
<u>Othe</u> Com	<u>r</u> Wildlife ments:	may dro	op a few trees along sta	and 12's north bound	dary for h	nabitat.				
<u>Next</u> Step:	<u>S:</u>									
14	72008014-Cut	18.0	42110 - Planted Red Pine	High Density Log	79	Harvest	Shelterwood	Planted Red Pine	Cmpt. Review Proposal	
Preso Spec	<u>cription</u> Sheltwo s:	ood/thinn	ning. Leave a mix of re	sidual BA mark area	a ranging) from 40-70 BA.				
<u>Othe</u> Com	<u>r</u> Create ments:	a more r	natural looking stand.							
<u>Next</u> Step:	<u>s:</u>									
17	72008017-Cut	60.6	42220 - Natural Jack Pine	High Density Pole	41	Harvest	Clearcut	Mixed Upland Herbaceous	Cmpt. Review Proposal	
Preso Spec	<u>cription</u> Current	ly being	harvested							
<u>Othe</u> Com	<u>r</u> ments:									
<u>Next</u> Step:	<u>s:</u>									
18	72008018-Cut	181.1	42220 - Natural Jack Pine	High Density Pole	79	Harvest	Clearcut	Mixed Upland Herbaceous	Cmpt. Review Proposal	
Preso Spec	<u>cription</u> Current	ly being	harvested							
<u>Othe</u> Com	<u>r</u> ments:									
<u>Next</u> Step:	<u>s:</u>									
23	72008023-Cut	52.7	42220 - Natural Jack Pine	High Density Pole	34	Harvest	Clearcut	Planted Jack Pine	Cmpt. Review Proposal	
Preso Spec	<u>cription</u> Part of <u>s:</u>	the KW	block 63. Follow KW p	olan final harvest and	d replant	. Treat with adja	acent KW stands.			
<u>Othe</u> Com	r_ Possibl ments:	e weave	south boundary to sof	ten fire break on He	lmer Lak	e Road.				
<u>Next</u> Step:	<u>S:</u>									
25	72008025-Cut	424.8	42220 - Natural Jack Pine	High Density Pole	34	Harvest	Clearcut	Planted Jack Pine	Cmpt. Review Proposal	
Preso Spec	<u>cription</u> KW blo <u>s:</u>	ck 63 fin	al harvest and replant.	Leave stands 22 8	27 for re	etention.				
<u>Othe</u> <u>Com</u>	r_ Work w ments:	vith wildli	fe biologist to plan sim	ulated vortices.						
<u>Next</u> Step	<u>S:</u>									

S t	Dat	ayling Mgt. Unit ted before 2:00 P	Table 3 M wit	Treath No L	atments Pres .imiting Fact	Compartment: 008 Year of Entry 2012				
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status	
26	72008026-Cut	20.9	42110 - Planted Red Pine	High Density Log	79	Harvest	Shelterwood	Planted Red Pine	Cmpt. Review Proposal	
<u>Pres</u> Spec	Prescription Do a marking thinning/shelterwood to create more natural looking stand. Stand was planted in 1931, and pruned 1971.									
<u>Othe</u> Com	<u>r</u> ments:									
<u>Next</u> Step	<u>s:</u>									
28	72008028-Cut	21.2	42220 - Natural Jack Pine	High Density Pole	50	Harvest	Clearcut	Planted Jack Pine	Cmpt. Review Proposal	
<u>Pres</u> Spec	<u>cription</u> KW bloc <u>s:</u>	k 63 fina	I harvest and replant							
<u>Othe</u> Com	r_ Part of th ments:	ne KW bl	ock 63. Follow KW p	lan final harvest and	d replant	Treat with adja	cent KW stands.			
<u>Next</u> Step	<u>s:</u>									
A	Total Treatment Acreage Proposed: 802.4									

S t	Data	Grayling Mgt. Unit Data updated before 2:00 PM			a Limiti	ents Prescrib ng Factor	Compartment: 008 Year of Entry 2012		
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error						
Presc Specs	ription S:								
Other Comm	nent:								
<u>Next</u> Steps	<u>:</u>								
<u>Limitii</u> <u>Treati</u>	ng Factor and No ment Reason	<u>)</u>							
Ac	Total Treatmen creage Propose	ıt d:	0						

Data updated before 2:00 PM

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Out of YOE -- Treatments Prescribed with No Limiting Factor

Year of Entry: 2012

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
Prescription Specs:								
<u>Other</u> <u>Comments:</u>								
<u>Next</u> <u>Steps:</u>								

Total Treatment Acreage Proposed:

e	Grayling	g Mgt. Unit		5 – Fo	orested Sta	ands Compartment: 008	4	
s t				Data upda	ated before	2:00 PM Year of Entry: 2012	141	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	•	
1	6120 - Lowland Cedar	Low Density Pole	2.8	101		Small pocket of cedar, very wet.		
2	6122 - Black Spruce	Low Density Pole	32.0	72		Scattered pole size and medium/high dense saplings. There is White pine pocket 1/2 acre in size aong the NW corner of stand # 1. As some nice senic value. Stand was harvested 1958 and we are looking at the residual/non-merchanable which probably 20 years old then.	a t t y	
4	6122 - Black Spruce	Medium Density Pole	56.7	71		Stand appears to have had all of the cedar removed.		
5	42220 - Natural Jack Pine	High Density Log	15.0	52		This stand is a result of cut that occured in the late 70's when red pine was harvested. The JP was around 20 years old the The adjacent private land owners are fuelwood cutting the oa It appears to be personal use can see it stacked in their yard Heavy BF and BS regen.		
6	6129 - Mixed Coniferous Lowland Forest	High Density Pole	123.1	109		Area in the center of stand has had all the cedar removed and has filled in with Black spruce ~(70 years old). Some nice ceda in places 12-16 DBH.	ır	
7	42290 - Natural Mixed Pine	Low Density Pole	17.2	50		Stand salvage cut 1993		
8	42110 - Planted Red Pine	High Density Log	15.4	79		Stand was planted 1931, Left as a visual barrier last YOE.		
9	6122 - Black Spruce	High Density Pole	23.1	52	81-110	Stand could be harvested, would need to work from the north and south side. The water is sub-surface and concentrated in the middle of the stand. Stand harvested 1958/some kind of harvest. Wildlife dropped some trees along the shared boundar of stands 8 & 7.	ſy	
11	42110 - Planted Red Pine	Medium Density Log	8.5	79	51-80	could call this stand two-age. Red pine planted 1931, jack pine seeded in after 1964 fire.	9	
13	42210 - Natural Red Pine	Low Density Log	25.2	79		Stand was final harvested 94-95 except for the red pine.		
14	42110 - Planted Red Pine	High Density Log	14.3	79	111-140	Stand has a non-authorized ORV trail. RDR report has be submitted, and the CO's have been notified.		
15	42110 - Planted Red Pine	High Density Log	26.2	79		Stand left as a visual and snow barrier last YOE.		
16	42220 - Natural Jack Pine	High Density Sapling	39.3	17		Stand final harvested 1993		
17	42220 - Natural Jack Pine	High Density Pole	60.6	41		Stand is currently being harvested.		
18	42220 - Natural Jack Pine	High Density Pole	181.1	79		stand is currently being harvested.		

S t		Graylin	g Mgt. Unit		5 – Fo Data upda	ted before 2	INDES Compartment: 008 2:00 PM Year of Entry: 2012	A VILLA
a n d	L Co	.evel 4 ver Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
21	42220	- Natural Jack Pine	High Density Sapling	40.9	17		Stand was final harvested 1993.	
22	42220	- Natural Jack Pine	Low Density Pole	5.1	39	Fire spring 1971, salvage cut fall 71, all merchantable trees we harvested. The remaining trees had plenty of space to grow very branchy with lots of male buds, easy to see the Budworn damage.		
23	42220	- Natural Jack Pine	High Density Pole	52.7	34		Stand harvested 1976	-
24	42220	- Natural Jack Pine	High Density Pole	20.2	52		Found a fire plow line. Stand left for visual and wind break last YOE.	_
25	42220	- Natural Jack Pine	High Density Pole	424.8	34	51-80	Fire occured spring1971. Stand was salvage fall 71. The remaing trees were final harvested 1976. Stand is mostly one-two stick with very few larger/older trees.	
26	42110	- Planted Red Pine	High Density Log	20.9	79	141-170	70 Stand was planted 1931, and pruned in 1967. A fire burner along the back side, appears to have caused heavier branchi less self-pruning. Some nice poles	
27	42220	- Natural Jack Pine	Medium Density	28.8	34		Stand was planted 1929, then salvage cut 1976. Open grown very branchy.	_
28	42220	- Natural Jack Pine	High Density Pole	21.2	50	51-80	Stand was final harvested 1960. Stand is starting to show some decline, a few trees have died.	;

Grayling Mgt. Unit

6 – Nonforested Stands Data updated before 2:00 PM

Compartment: 008 Year of Entry: 2012



Stand	Cover Type	Acres	Gen Cmts:
3	6224 - Treed Bog	18.4	Very few trees waist high
10	3105 - Mixed Upland Herbaceous	274.8	
12	6224 - Treed Bog	7.0	
19	3105 - Mixed Upland Herbaceous	323.2	
20	3105 - Mixed Upland Herbaceous	42.9	



7 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

Data updated before 2:00 PM

Stand	SCA Type	SCA Name	Acres	Comments



8 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

Conservatior Area	п Туре	Data updated before 2:00 PM Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish speci year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	itions that allow naturally-reproduced or les (e.g., slimy sculpin) to persist from ese conditions due to substantial are established by Director's action and
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and coop U.S. Fish and Wildlife service for the recovery of threatened and 365, Endangered Species Protection, of the Natural Resources a PA 451, and the Federal Endangered Species Act of 1973. This species plans in various stages of review. As of now only two ex Plover Habitat.	perative process between the DNR and the endangered species, as governed by Part and Environmental Protection Act, 1994 is an active program, with proposed kist, Kirtland Warbler Habitat and Piping