

# GRAYLING FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 178 ENTRY YEAR: 2012

GIS Compartment Acreage: 1043 County: Crawford

Revision Date: 9/7/2010

**Stand Examiner:** Craig Farrer

**Legal Description:** T27N, R04W Section 20, 21 and 22, Frederic Township

**Management Goals:** To manage and maintain species and structural diversity, health, productivity, and sustainability throughout the compartment. To provide multiple uses of the land while incorporating any visual management.

**Soils and Topography:** Soil types, within this compartment consist of Grayling sands and Graycalm sands. Topography, within this compartment consists of many ridges and valleys throughout it.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Sections 21 and 22 is solid state ownership. Section 20 is mostly privately-owned with full time and seasonal residents, with the exception of an 80 acre parcel in the northeast quarter that is state-owned. Land use within the compartment is generally recreational.

Unique, Natural Features (include only non-site specific and non-sensitive information): None

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): None recorded at this time.

**Special Management Designations or Considerations:** No special designations. Compartment is a major recreational corridor. The recreational trail system within the compartment is a major consideration to taken into account when doing forest treatments.

**Watershed and Fisheries Considerations:** None

Wildlife Habitat Considerations: To manage and maintain existing cover types for deer, bear, squirrel, turkey and grouse.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial and ice-contact outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Coldwater Shale. There is not an economic use for the Coldwater Shale. The nearest gravel pit is three miles to the south, and gravel potential is thought to be good on the upland areas. None of the State land in the compartment has been leased for oil and gas.

**Vehicle Access:** The compartment is accessed from Howes Lake Road, a county road. Howes Lake Road traverses north/south through the west portion of the compartment. A designated nowmobile trail # 5 and

several two tracks branch off this road and wind through the compartment. All newly created roads due to timber harvesting must be closed following the harvest.

Survey Needs: None.

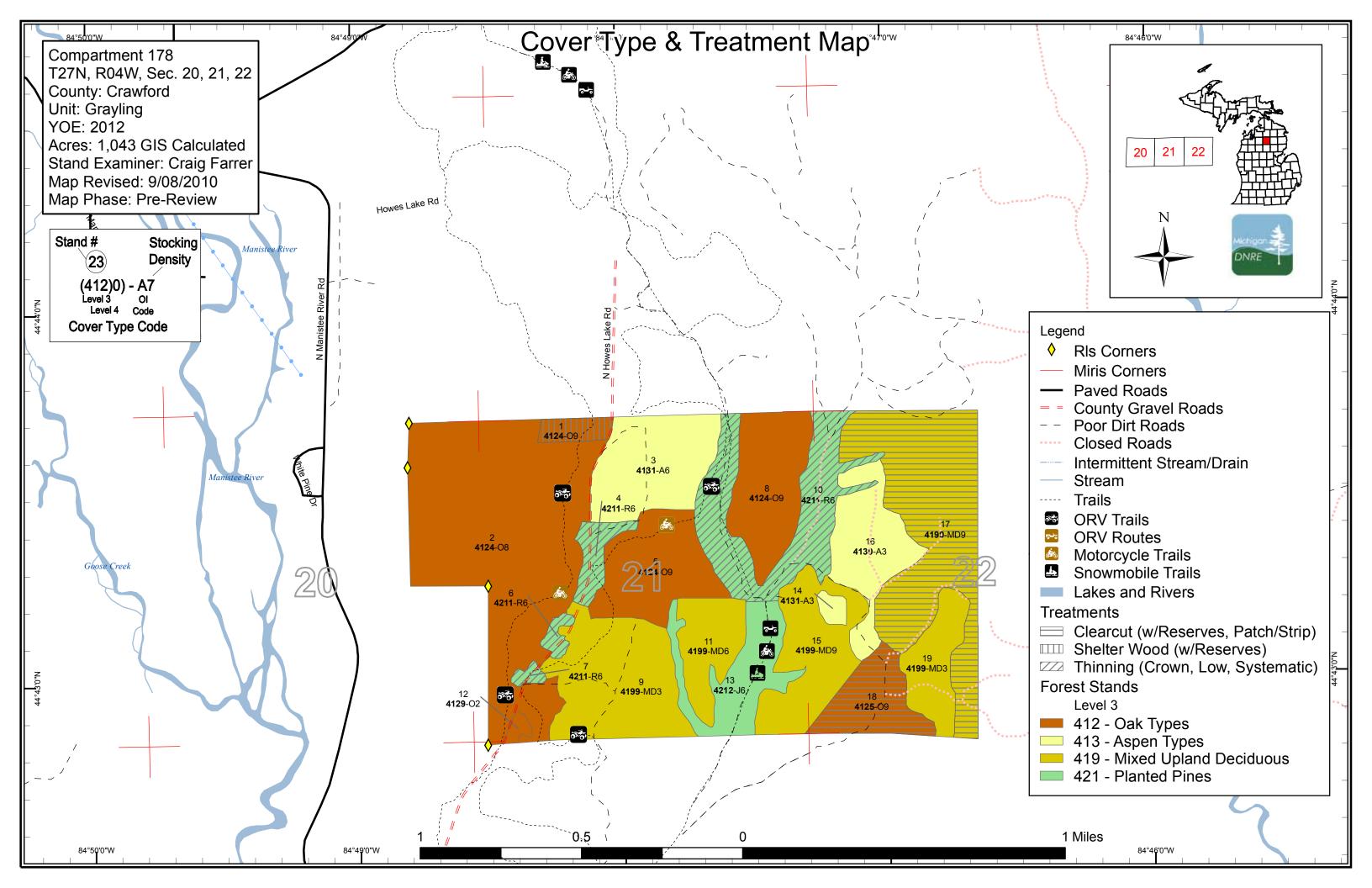
**Recreational Facilities and Opportunities:** The compartment does provide many recreational opportunities such as hunting, snowmobiling, wildlife viewing and ORV riding. The Blue Bear Snowmobile Trail #5 / ORV Route traverses north/south through the compartment and the Frederic Loop ORV trail traverses through portions of this compartment.

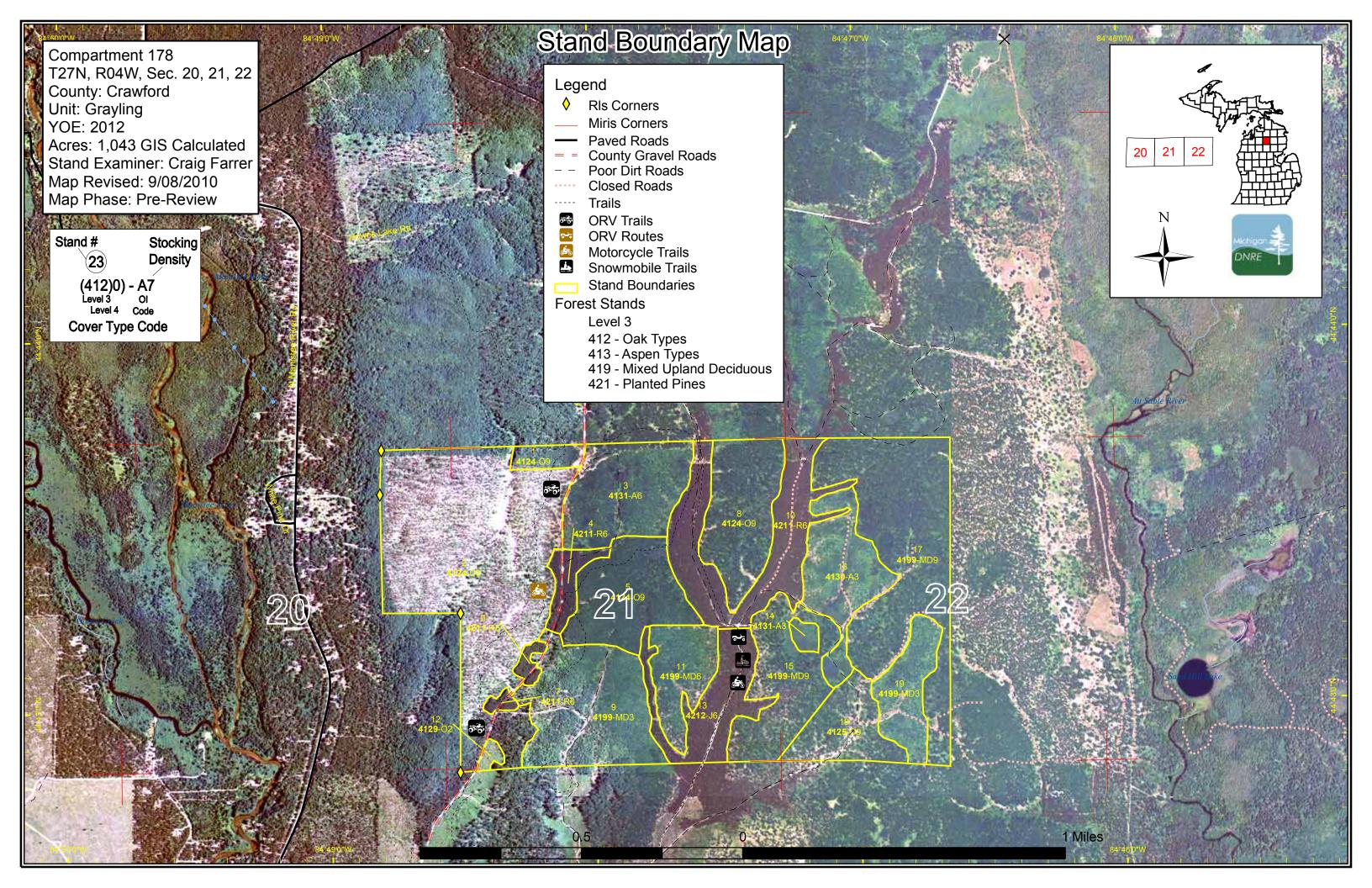
**Fire Protection:** Fire protection is the responsibility of the Michigan DNRE and the Frederic Volunteer Fire Department. Current access is adequate for fire suppression equipment. Nearby water sources include the Manistee River and the North Branch of the Au Sable River.

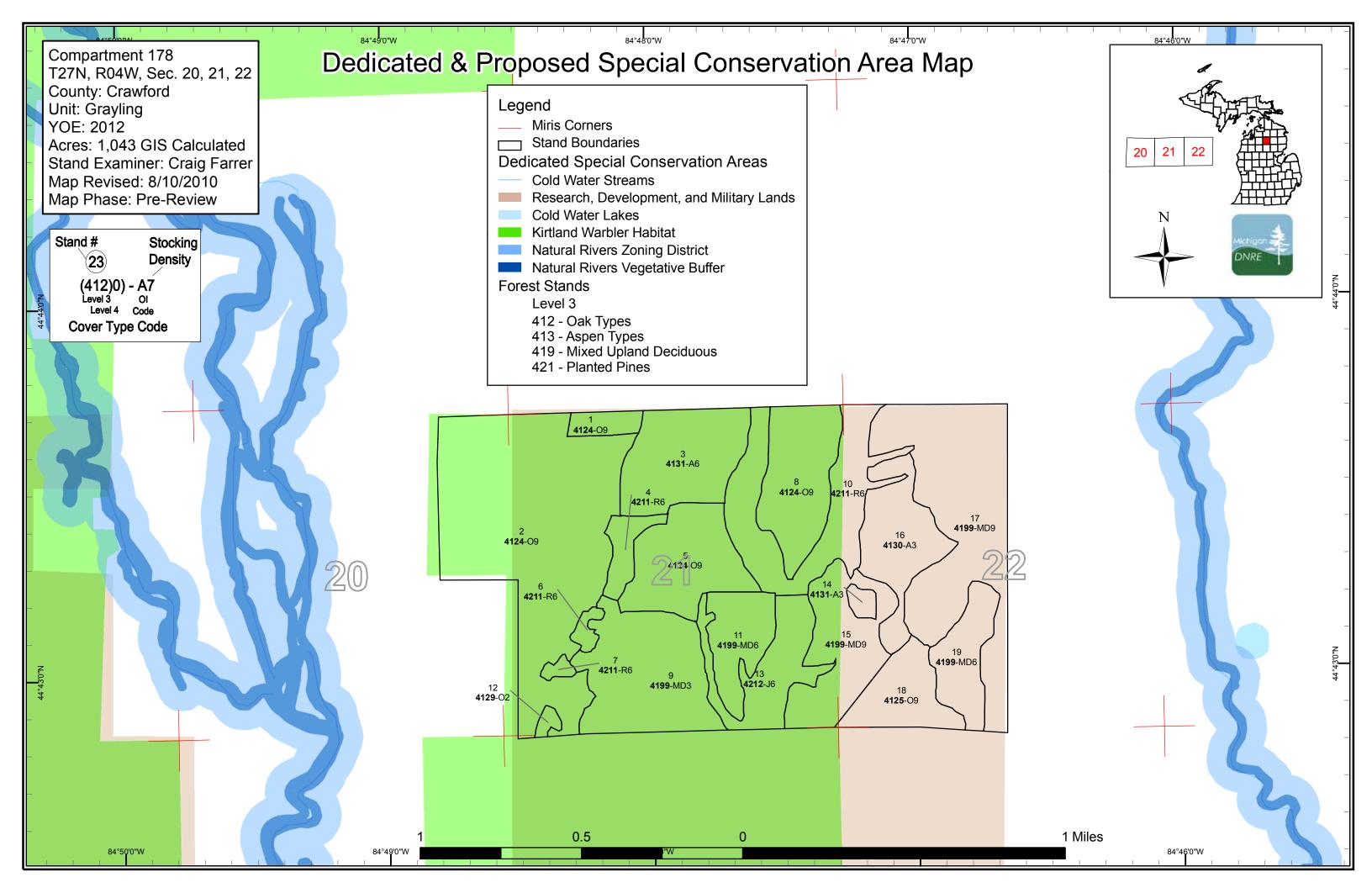
# **Additional Compartment Information:**

**LOTS Compartment Acreage: 1,040 acres** 

- ➤ 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







Grayling Mgt. Unit

Data updated before 2:00 PM

Compartment 178 Year of Entry 2012



Age Class																	
	Not Not	Do Signary Land	   32	\$2.0	25.50		D. L.	\$5.05 /	8 /	, R. J.	\$ 6	, ss /	00,00	70,70 8,70	Zo Ju	AS /	**************************************
Aspen	0	0	127	0	0	0	0	0	0	0	0	0	0	0	0	127	
Jack Pine	0	0	0	0	0	0	47	0	0	0	0	0	0	0	0	47	
Mixed Upland Deciduous	0	0	89	70	0	0	0	0	0	198	0	0	0	0	0	358	
Oak	0	0	3	0	0	0	0	0	0	244	100	63	0	0	0	409	
Red Pine	0	0	0	0	0	0	103	0	0	0	0	0	0	0	0	103	
Total	0	0	220	70	0	0	150	0	0	441	100	63	0	0	0	1043	



# **Table 2 – Proposed Treatment Summaries**

Data updated before 2:00 PM

Grayling Mgt. Unit Year of Entry 2012

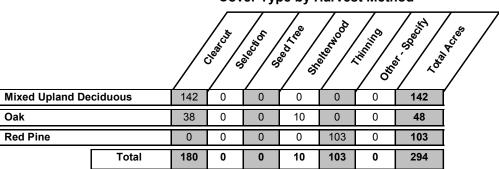
Compartment 178
Total Compartment Acres: 1043

#### **Acres by Treatment Type**

Commercial Harvest - 294 Site Prep - 0 Tree Planting - 0 Prescribed Burn - 0 Other - 0

Habitat Cut - 0 Opening Maintenance - 0 Tree Seeding - 0 Pesticide - 0

#### **Cover Type by Harvest Method**



Compartment: 178 Grayling Mgt. Unit Table 3 -- Treatments Prescribed with No Limiting Factor Year of Entry 2012 s Data updated before 2:00 PM t **Treatment** Acres Stage1 Size Stand **Treatment Treatment Cover Type Approval** n Name Method Objective Status CoverType Density d Age Type 72178001-Cut 10.3 4124 - Red with High Density Log 89 Harvest Shelterwood Red with White Oak Cmpt. Review Proposal White Oak Prescription Mark 40 BA of Oak to leave with green paint and remove all Aspen and Red maple from the stand. Protect ORV trail that runs through the stand. Specs: **Other** Comments: Will accept a mix of natural regeneration. <u>Next</u> Steps: 72178004-Cut 42110 - Planted High Density Pole Systematic Thinning Planted Red Pine Cmpt. Review 14.5 Harvest Red Pine Proposal Prescription 3rd row thinning and removing other deciduous species and Jack pine within the rows. Specs: <u>Other</u> Comments: Next Steps: 6 72178006-Cut 5.0 42110 - Planted High Density Pole 51 Harvest Systematic Thinning Planted Red Pine Cmpt. Review Red Pine Proposal Prescription 3 rd row thinning and removing other deciduous species and Jack pine. Specs: Other\_ Comments: **Next** Steps: 72178007-Cut 3.2 42110 - Planted High Density Pole 51 Harvest Systematic Thinning Planted Red Pine Cmpt. Review Red Pine Proposal Prescription 3rd row thinning and removing other deciduous species and Jack pine within the rows. Other\_ <u>Next</u> Steps: 72178010-Cut 80.7 42110 - Planted High Density Pole Planted Red Pine 10 Harvest Systematic Thinning Cmpt. Review

Specs:

Comments:

Red Pine Proposal

Prescription 3rd row thinning and removing other deciduous species and Jack pine withing the rows. Follow snowmobile trail specifications for timber sale. Specs:

Other

Comments:

<u>Next</u>

Steps:

17 **72178017-Cut** 141.9 4199 - Other Mixed High Density Log 87 Harvest Clearcut with Other Mixed Upland Cmpt. Review **Upland Deciduous** Reserves Deciduous Proposal

Prescription Final harvest with reserves. Leave large island between stand 16 and 19. Also leave 2 2 acre patches scattered in the north part of stand. Specs:

Other

Comments:

<u>Next</u> Will accept a mix of regeneration.

Steps:

Grayling Mgt. Unit

Data updated before 2:00 PM

Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 178
Year of Entry 2012

Michigan \$

a n d	Treatment Name	Acres	s Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
18	72178018-Cut	38.1	4125 - Black, N. Pin Oak	High Density Log	92	Harvest	Clearcut with Reserves	Red with White Oak	Cmpt. Review Proposal

<u>Prescription</u> Overstory removal. Removal all trees greater than 5 " at DBH. Protect all existing regeneration and trees less than 5 " at DBH Specs:

<u>Other</u>

s

Comments:

Next Steps:

**Total Treatment** 

Acreage Proposed: 293.5

Grayling Mgt. Unit Table 4 -- Treatments Prescribed with Compartment: 178 a Limiting Factor s Year of Entry 2012 Data updated before 2:00 PM t **Treatment Treatment** n Acres Stage1 Size Stand **Treatment Cover Type Approval** Name CoverType Density Method Objective Status Age Type #Error **Prescription** Specs: <u>Other</u> Comment:

Total Treatment Acreage Proposed:

<u>Limiting Factor and No</u> <u>Treatment Reason</u>

Next Steps:

0

Data updated before 2:00 PM

# Out of YOE -- Treatments **Prescribed with No Limiting Factor**

Year of Entry: 2012

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status	
Prescription Specs:									

<u>Other</u> Comments:

<u>Next</u> Steps:

> **Total Treatment** Acreage Proposed:

0

s t	Grayling			orested Sta	Victoria Victoria	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4124 - Red with White Oak	High Density Log	10.3	89	141-170	Mature Oak stand with a Red maple understory. ORV trail traverses through a portion of the stand. Stand was part of stand 1 last entry.
2	4124 - Red with White Oak	Medium Density Log	233.2	89	1-50	Large stand off matuure Oak. Stand was treated last entry year with a 40% crown closure (shelterwood seed cut). Regen is a mix of Aspen, Red maple and Oak. Oak is being competted by the other spieces. Several small openings exists within the stand in the valleys. Several two tracks exist with in the stand that were blocked but since than have been breeched. ORV trail traveres through a portion of the east side of stand. East side of stand borders Howes Lake Road.
3	4131 - Aspen, Oak	High Density Pole	67.6	17	51-80	Immature Aspen stand mixed with Oak and Red maple.
4	42110 - Planted Red Pine	High Density Pole	14.5	51		Red Pine plantation with a few deciduous spieces scattered throuhout it. Mainly Oak, Red maple & Cherry. Howes Lake Road traverses north/south though center of stand.
5	4124 - Red with White Oak	High Density Log	62.5	102	51-80	Mature Oak stand that was thinned in 2006. All Aspen and Red maple was removed also. Red maple stump sprouting. Oak too, but is being heavily browsed. ORV trail runs through a portion of the stand.
6	42110 - Planted Red Pine	High Density Pole	5.0	51		Small Red Pine plantation. Howes Lake Road traverses north/south through the center of the stand.
7	42110 - Planted Red Pine	High Density Pole	3.2	51		Small Red Pine plantation with a few deciduous spieces scattered throughout the stand. Howes Lake Road traverses through the center of the stand.
8	4124 - Red with White Oak	High Density Log	61.6	90	81-110	Mature Oak stand that was thinned to 70 ba or had a species removal 15 to 20 years ago. Heavy Red maple understory.
9	4199 - Other Mixed Upland Deciduous	High Density Sapling	89.5	16		Immature Oak/Aspen/Red maple stand. Stand is starting to reach into pole size. West side of stand more dominantly Oak and east side Aspen (dencer too as seen in photo). Two track traverses through south portion of the stand and one up through the middle of stand to then north and dead ending.
10	42110 - Planted Red Pine	High Density Pole	80.7	51		Red Pine plantation. A few scattereed hardwood spieces within the stand (cherry/oak). Blue Bear snowmobile/ORV route traverses through a portion of the stand. A blocked trail road

4199 - Other Mixed

Upland Deciduous

4129 - Mixed Oak

11

12

High Density

Pole

Medium

Density

35.8

3.1

26

19

traverses through a portion of the stand.

Stand swapped from Non-Forested to Forested.

Immature Oak/pine stand of variable sizes. 1 to 6 ft tall to 1 to 4 inches in dia.. Stand is part of large stand in compartment 179 to  $\frac{1}{2}$ 

the south. West side of stand borders Howes Lake Road.

5 - Forested Stands Compartment: 178 Grayling Mgt. Unit s Year of Entry: 2012 Data updated before 2:00 PM t а Level 4 Size Stand BA General n **Cover Type** Density Acres Comments: Age Range d 42120 - Planted Jack **High Density** 46.7 51 New stand added. Jack pine plantation with mixed deciduous 13 Pine Pole spieces. Blue Bear snowmobile/ORV route traverses through the stand north/south. Stand continues south into compartment 179. 4131 - Aspen, Oak **High Density** 4.8 10 14 Sapling 4199 - Other Mixed High Density 15 62.5 87 81-110 Mature Oak stand mixed with Red maple and Red pine. Other **Upland Deciduous** Log hardwood and pine spieses mixed within the stand. Heavy deer browsing on what Oak regen that exists. Also heavy fuelwood cutting within stand including standing dead. Also oak mortality throughout the stand. Two track trails run through portions of the stand. **High Density** 4130 - Aspen 54.6 18 Large immature Aspen stand mixed with deciduious spieces. 16 Sapling (Cherry, Oak, Red maple). Blocked two track traverses through middle of stand north/south and along the south east corner. Two track runs along the south west corner of the stand. 4199 - Other Mixed **High Density** 17 135.2 87 111-140 Mature Oak stand mixed with Red maple in over story and under **Upland Deciduous** Log story. White pine understory more dense in strip to south. All roads through the stand have been blocked. 4125 - Black, N. Pin Oak High Density 18 38.1 92 1-50 Log

20

34.5

1-50

Immature Oak, Aspen and Red Maple stand. Depends on where

you our in the stand. Its in pockets as well as scattered throughout the stand. Two tracks around a portion of the stand as well as two the old landings in the stand have been blocked.

Looks as though one to south has been breeched.

4199 - Other Mixed

**Upland Deciduous** 

19

High Density

Sapling

Grayling Mgt. Unit

# 6 - Nonforested Stands

Data updated before 2:00 PM

Michigan DNRE

Compartment: 178

Year of Entry: 2012

Stand Cover Type Acres Gen Cmts:

Grayling Mgt. Unit Compartment: 178

Year of Entry: 2012



### 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

Compartment: 178
Year of Entry 2012



#### **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.

Conservation Area	on Type	Data updated before 2:00 PM  Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and U.S. Fish and Wildlife service for the recovery of threatened 365, Endangered Species Protection, of the Natural Resour PA 451, and the Federal Endangered Species Act of 1973. species plans in various stages of review. As of now only twelforer Habitat.	and endangered species, as governed by Part ces and Environmental Protection Act, 1994 This is an active program, with proposed
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicate include the 5,847 acre Forest Fire Experiment Station, the 1 Area, the Beaver Islands Archipelago Wildlife Research Are High and Hog Islands, all state owned land on Beaver, Sout Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Nursery, and over 144,000 acres of Military Lands.	2,000 acre Houghton Lake Wildlife Research ea (that includes most of Garden Island, all of the Fox and North Fox Islands), the Cusino