



GRAYLING FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 203 ENTRY YEAR: 2011

GIS Compartment Acreage: 1347 County: Crawford

Revision Date: 7/16/2009

Stand Examiner: Patrick L. Potter

Legal Description: T26N R04, Sections 10, 11, & 14

Management Goals: This compartment is comprised of Hanson Reserve Lands which contain the following deed restrictions: 1) The lands are to be used as a permanent encampment and maneuvering ground for the military, 2) it is to serve as a game preserve for the breeding and protection of game, and 3) it is to serve as a forest reserve. The management goal is to maintain forest health, productivity, sustainability, species diversification, and structural diversity throughout the compartment while meeting the deed restrictions.

Soils and Topography: A mixture of Rubicon Sand, Grayling Sand, Rifle Peat, Graycalm Sand, and Kinross Loam Sand. The terrain is flat with some steep areas in the south part of section 14.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Ownership is mostly Military Board Land (referred to as Hanson Reserve Lands) with private property located on Lake Margrethe and along the AuSable River. Hanson Reserve Lands were given to the National Guard, DMA by Rasmus Hanson in 1913, with several deed restrictions as outlined under the management objective. These restrictions have tasked the DNR is with managing the natural resources on these lands as long as management activities do not conflict with military needs. In addition, hunting is prohibited on these lands. Hanson Hills Recreation Area is located in section 14. The State of Michigan does not own Military Board Land, but manages the resources for the military.

Unique, Natural Features: Houghton's goldenrod (*Solidago houghtonii*) a state threatened species and the Hanson State Game Refuge.

Archeological, Historical, and Cultural Features: None Known.

Special Management Designations or Considerations: Hanson State Game Refuge

Watershed and Fisheries Considerations: The AuSable River is located on private property in the NE ¼ of section 11 along with Lake Margrethe in the west ½ of section 10.

Wildlife Habitat Considerations: An eagle had been spotted in the area last YOE. There are a number of low swampy stands serving as winter deeryards and potential massasauga habitat. Heavy deer browsing has been noted in the area during the past several years.

Mineral Resource and Development Concerns and/or Restrictions: Military Board Land.

Vehicle Access: Primary access is from M-72west and M-93, both state highways. There are numerous county roads including Old Lake Road and Margrethe Blvd. . An old railroad grade runs through section 14 and 11.

Survey Needs: None needed at this time.

Recreational Facilities and Opportunities: Part of the Hanson Hills Recreation Area is located in section 14. The Hanson Recreation Area is located in the south part of the compartment and has an intensive system of mountain bike and cross country ski trails on the state land. The Hanson Hills connector snowmobile trail #7 runs through sections 11 and 14. In addition section 11 contains a snowmobile trail head/parking lot.

Fire Protection: Current road system is adequate and no timber conversion is needed. There are sufficient natural barriers for fire protection.

Additional Compartment Information:

LOTS Compartment Acreage: _____

- **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**

Cover Type & Treatment Map

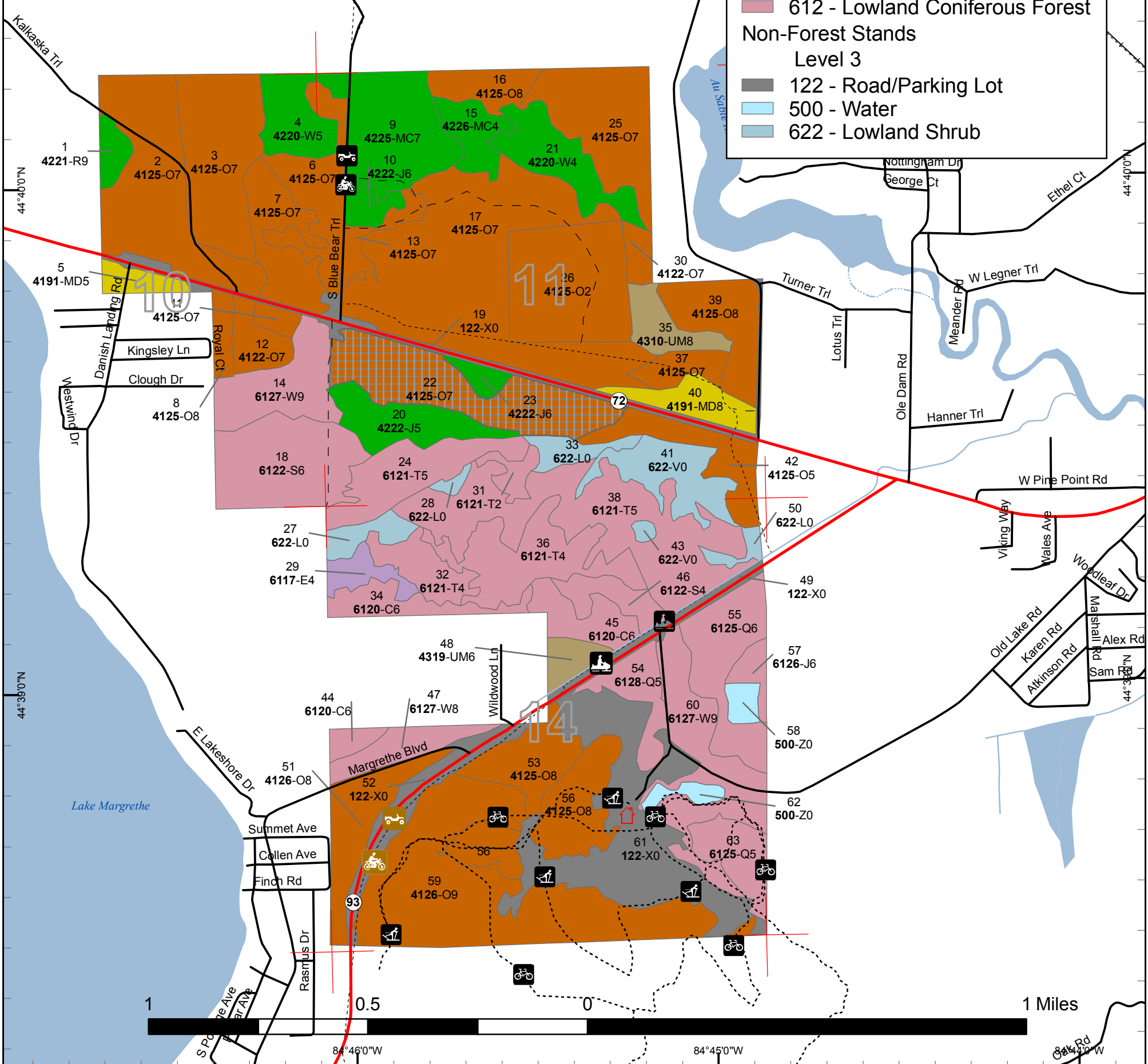
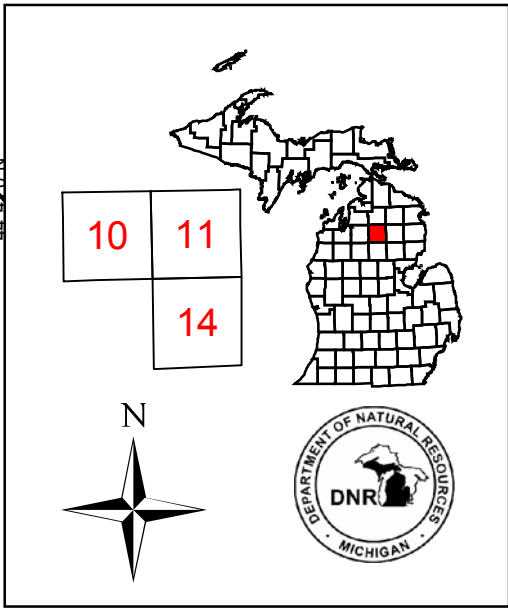
84°44'0"W

Compartment 203
 T26N, R04W, Sec. 10, 11, 14
 County: Crawford
 Unit: Grayling
 YOY: 2011
 Acres: 1,347 GIS Calculated
 Stand Examiner: Patrick Potter
 Map Revised: 9/01/2009
 Map Phase: Pre-Review

Stand #
 23
 Stocking Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

Legend

- Miris Corners
- Highways
- Paved Road
- Poor Dirt Road
- Intermittent Stream/Drain
- Stream
- Trails
- State Highway
- ORV ORV Routes
- Motorcycle Motorcycle Trails
- Snowmobile Snowmobile Trails
- Ski Ski Trails
- Bike Bike Trails
- Lodge Lodge
- Lakes and Rivers
- Seed Tree (w/Reserves)
- Treatments**
- Level 3
- 412 - Oak Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- Level 3
- 122 - Road/Parking Lot
- 500 - Water
- 622 - Lowland Shrub



84°46'0"W

84°45'0"W

44°41'0"N

44°40'0"N

44°38'0"N

44°40'0"N

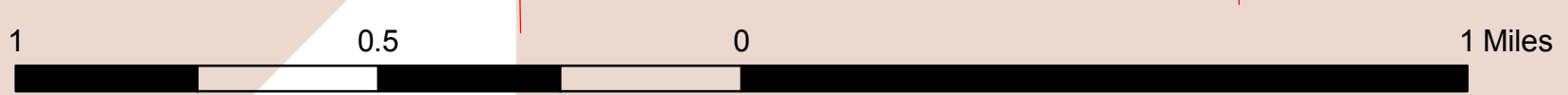
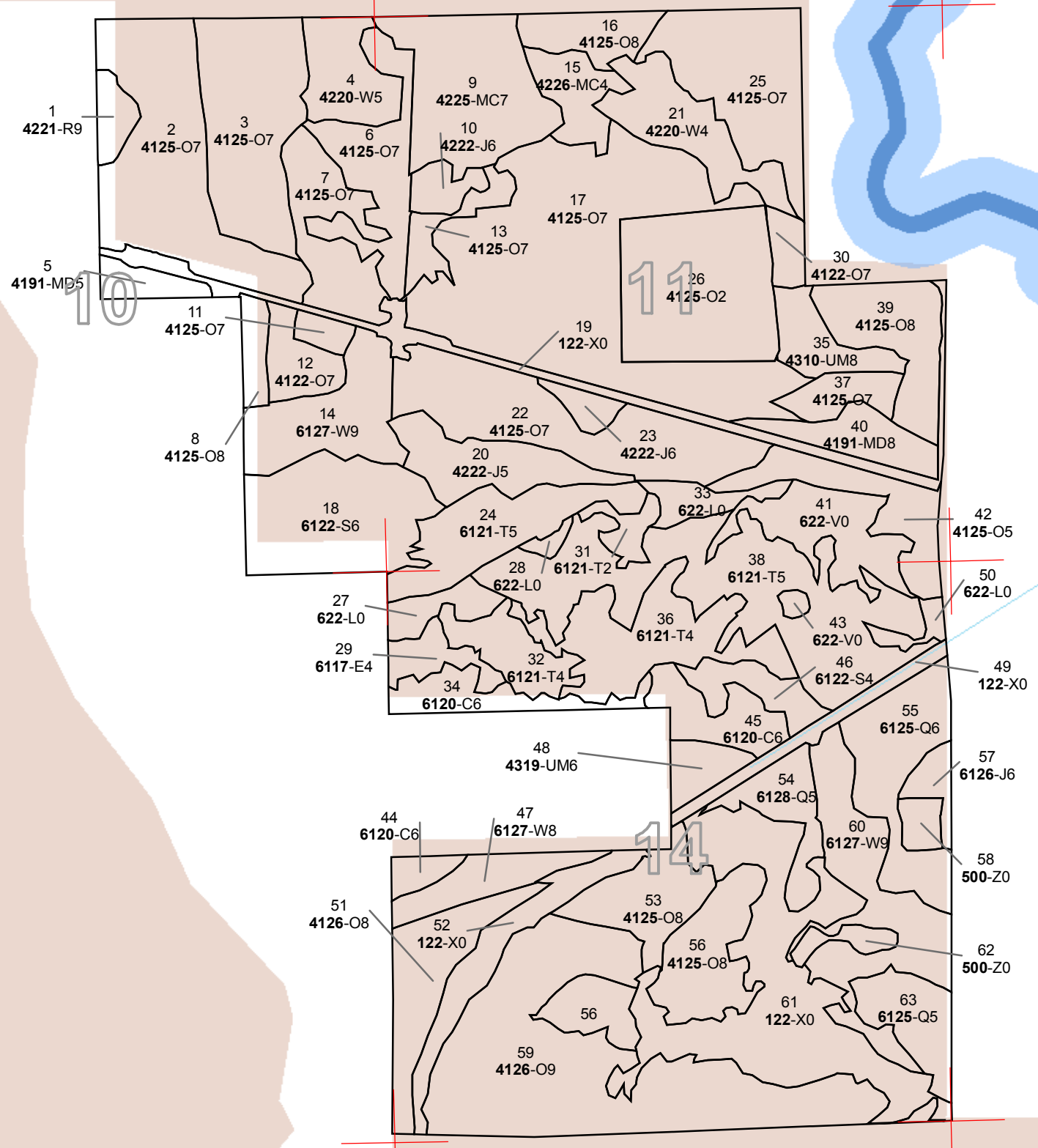
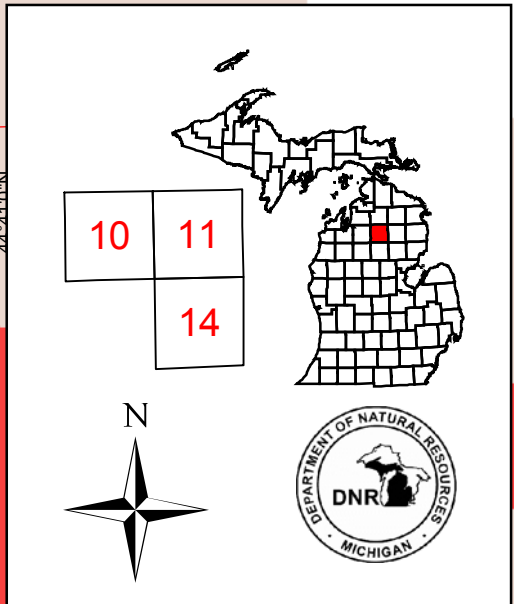
44°39'0"N

Dedicated & Proposed Special Conservation Area Map

Compartment 203
 T26N, R04W, Sec. 10, 11, 14
 County: Crawford
 Unit: Grayling
 YOE: 2011
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 Map Revised: 9/01/2009
 Map Phase: Pre-Review

Stand #
 23
Stocking Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

- Legend**
- Miris Corners
 - Stand Boundaries
 - Dedicated Special Conservation Areas**
 - Cold Water Streams
 - Ecological Reference Areas
 - Natural Rivers Vegetative Buffer
 - Natural Rivers Zoning District
 - Research, Development, and Military Lands
 - Forest Stands**
 - Level 3
 - 412 - Oak Types
 - 419 - Mixed Upland Deciduous
 - 422 - Natural Pines
 - 431 - Upland Mixed Forest
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - Non-Forest Stands**
 - Level 3
 - 122 - Road/Parking Lot
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44°41'0"N

44°40'0"N

44°39'0"N

84°47'0"W

84°46'0"W

84°45'0"W

44°41'0"N

44°40'0"N

44°39'0"N

84°47'0"W

84°46'0"W

84°45'0"W

Grayling Mgt. Unit

Coverture, Acres, and Age summary
(Level 3 Cover Type)

Compartment 203 Year of Entry 2011

Report Date: 09/11/2009



	Age Class														Total	
	Non-Forested	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +		Uneven Age
Lowland Coniferous Forest	0	0	0	0	0	5	5	39	213	10	0	51	43	0	0	367
Lowland Deciduous Forest	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	8
Lowland Shrub	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	6	13	0	0	0	0	19
Natural Pines	0	0	0	20	6	22	28	43	0	6	0	0	0	0	0	125
Oak Types	0	0	0	46	0	0	0	0	23	101	473	0	0	0	0	643
Road/Parking Lot	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	115
Upland Mixed Forest	0	0	0	0	0	0	12	0	0	7	0	0	0	0	0	19
Water	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Total	166	0	0	66	6	27	53	82	236	130	486	51	43	0	0	1347

**PROPOSED TREATMENTS
NO LIMITING FACTORS**



S
t
a
n
d

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
22 72203022-Cut	45.6	4125 - Black, N. Pin Oak	Low Density Log	82	Harvest	Seed Tree	Oak, Pine

Rev --Elaine Carlson : 07/23/2009 comments: Thanks Patrick
Cmnt:

Rev Stand is along M-72, visual concerns. Stand is open in areas, and had a salvage cut mid 90's harvesting the dead oak. Mark the oak, with green paint
Spec: to leave down to 20-30 BA. Leave all red maple and aspen within three chains of M-72 for visual/fall colors. Plant red pine staying outside of the remaining tree canopy.

Next
Steps:

**Total Treatment
Acreage Proposed: 45.6**

S
t
a
n
d

Grayling Mgt. Unit
Inventory Method: IFMAP

PROPOSED TREATMENTS WITH LIMITING FACTORS

Compartment: 203 Entry Yr: 2011
Date 09/11/2009



Treatment Name	Acres	Stage1 Cover Type	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Page 1 of 1
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Limiting Factor
and Comment:

Rev
Cmnt:

Rev
Spec:

Next
Steps:

No Treatment
Reason

**Total Treatment
Acreage Proposed: 0**



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.

Inventory Method: IFMAP

Stand	SCA Name	Acres	Comments



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.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.