

# GRAYLING FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

**COMPARTMENT # 220 ENTRY YEAR: 2013** 

Compartment Acreage: 170 County: CRAWFORD

**Revision Date: 7/21/11** 

**Stand Examiner:** Lucas Merrick

**Legal Description:** Grayling Township, T26N R03W sections 17 and 18

T26N R04W section 12

**Management Goals:** Due to the fractionalized ownership in this compartment, the goals are varied. Major concerns of this compartment are military, visual management, and historical as well as to maintain forest health, productivity, sustainability, species diversification and structural diversity where we can on these small ownerships. The primary management objective for lands in section 17 is education regarding and maintenance of the historical Beal Plantation. The primary management objective for lands in section 18 is maintenance of swamp and lowland types for wildlife and fisheries habitat. The primary objective for lands in section 12 is military use and to maintain the current sustainability of forest cover types on this military board land. The DNR will coordinate all prescribed activities with the National Guard to ensure they are compatible with military training needs.

**Soil and Topography:** The topography of this compartment is flat to slightly rolling. The upland soils are primarily Grayling sands, the lowland portions are Tawas-Leafriver mucks.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment has very fractionalized ownership. The majority of property within the compartment boundary is private. This compartment is made up of three small parcels of state ownership and one small parcel of military board land in the vicinity of the City of Grayling. Commercial and residential development is present throughout.

**Unique, Natural Features:** Per Michigan Natural Features Inventory there is potential for dusted skipper, grizzled skipper, red-legged spittlebug, Henry's elfin, secretive locust, and boreal brachionycha in barren areas. The compartment shows potential for red-shouldered hawk and goshawk. Wood turtles and Blanding's turtle could be found in the streams. Eagle and osprey may also occur. Michigan Natural Features Inventory reports "excellent potential" for eastern massasauga rattle snake.

Potential plant species are rough fescue, pale agoseris, Hill's thistle, and Alleghany plum in pine barrens/dry sand prairie. False violet could occur in hummocky pine, hardwood, or aspen stands. Rare plants of Cedar Swamps: round-leaved orchis, calypso, ram's-head lady's slipper, and limestone oak fern may be present. There is potential for clubmoss in moist grassy depressions or moist sandy soil/borrow pits. Houghton's goldenrod might be found in seasonally moist grassy depressions.

**Archeological, Historical, and Cultural Features:** The Beal Plantation is found in section 17. It was established in 1888, and is one of the nation's first forest plantations. There is a parking lot, walking path and interpretive signs.

**Special Management Designations or Considerations:** The Military Board Lands found in the compartment are designated "special conservation areas".

**Watershed and Fisheries Considerations:** Simpson Creek, a small tributary to the AuSable River is found in section 18.

**Wildlife Habitat Considerations:** Promote the expansion of aspen and oak cover types. Protect mast producing shrubs whenever possible. Efforts should be made to enhance dead and down woody debris and standing snags.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift is the Michigan Formation, quarried for gypsum elsewhere in the State. The nearest gravel pit is located two and one-half miles to the north and potential is thought to be limited. The west part of the compartment is State Military Reservation. There are no oil and gas leases in this compartment. The nearest production is Beaver Creek Field, located six miles to the southwest.

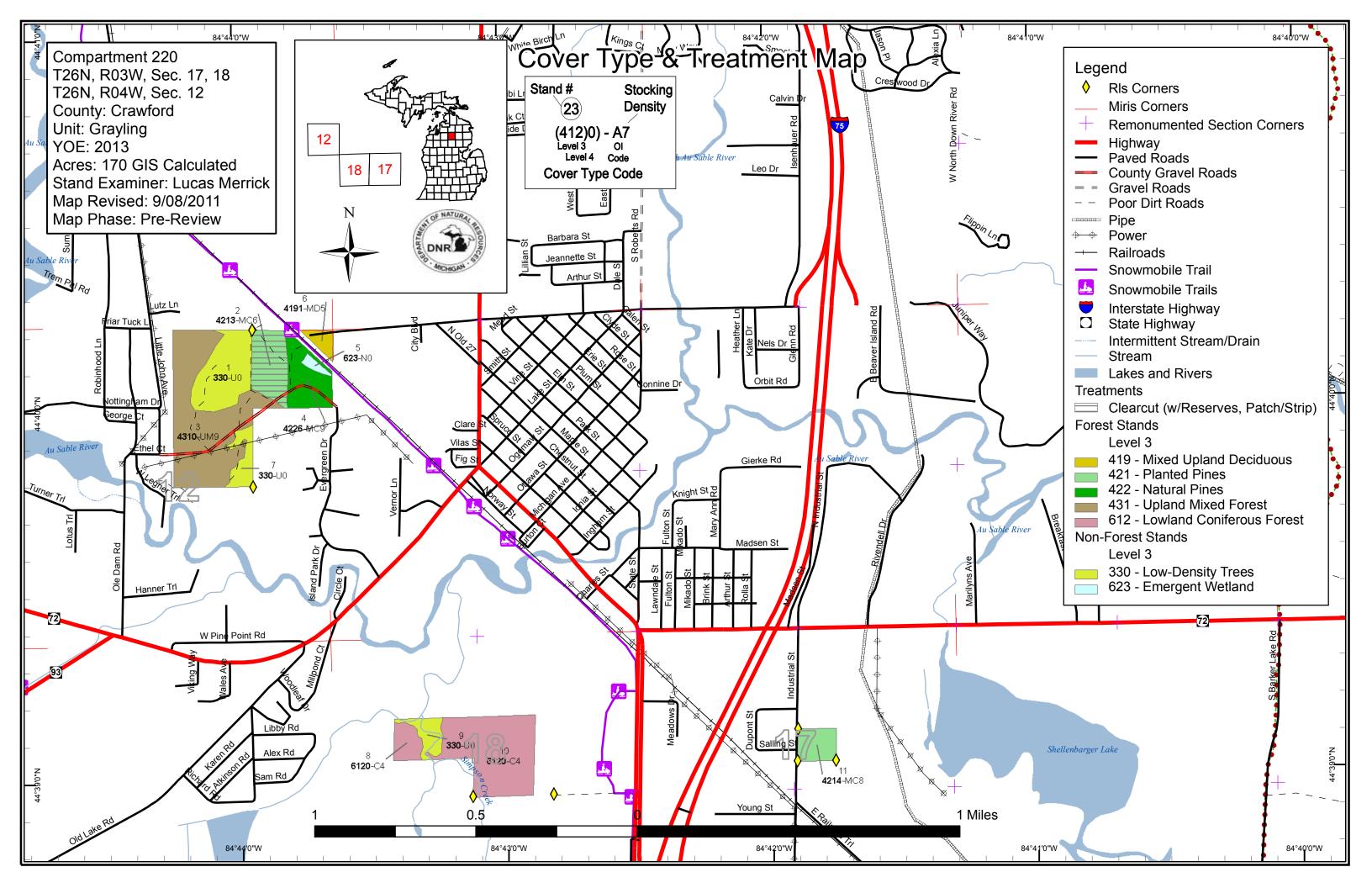
**Vehicle Access:** The only portions of this compartment not accessible by vehicles are the parcels found in section 18 behind the Grayling Country Club. There is a non-exclusive easement along the center section line across the golf course. This easement is not currently drivable.

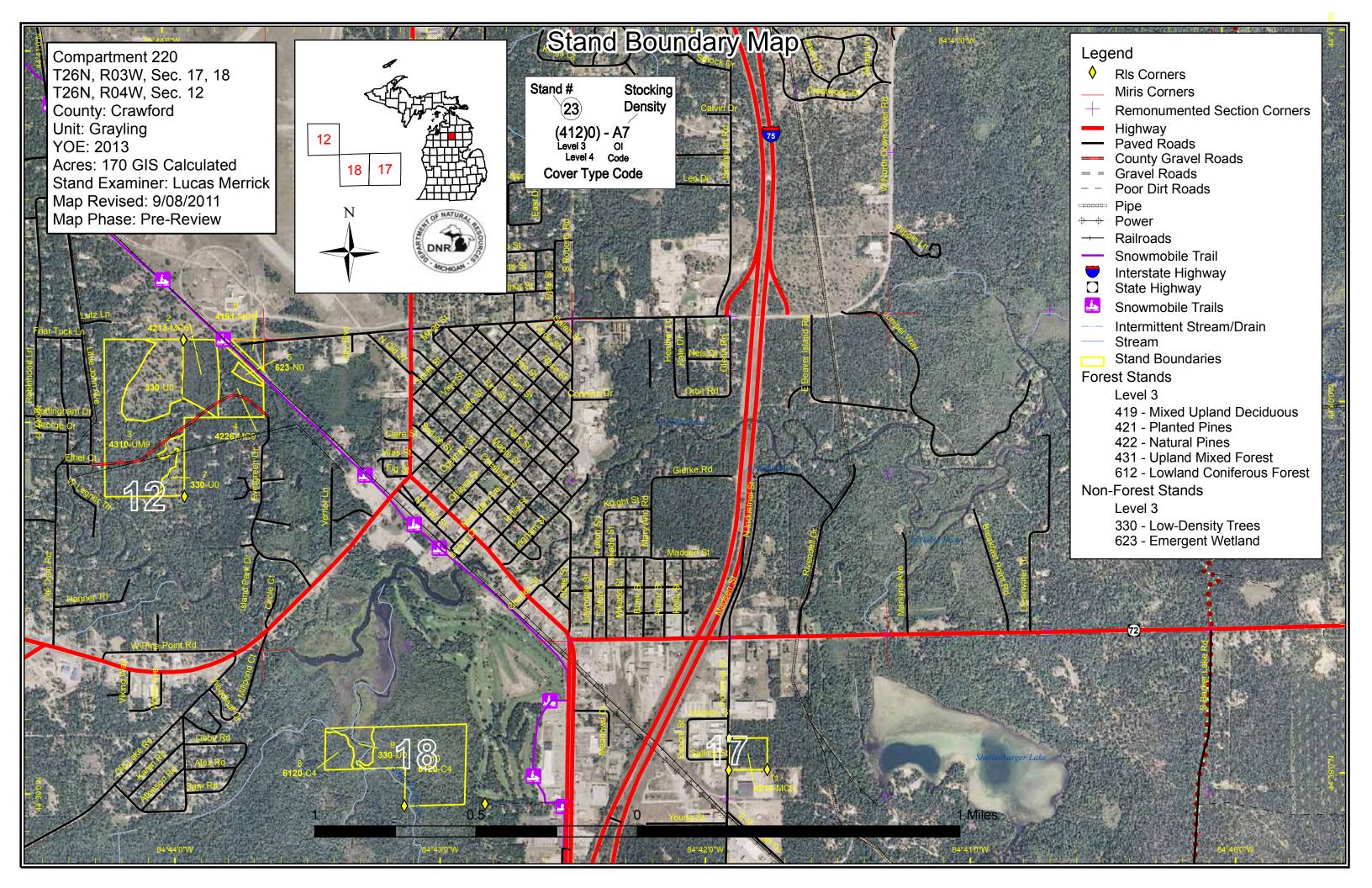
**Survey Needs:** None at this time.

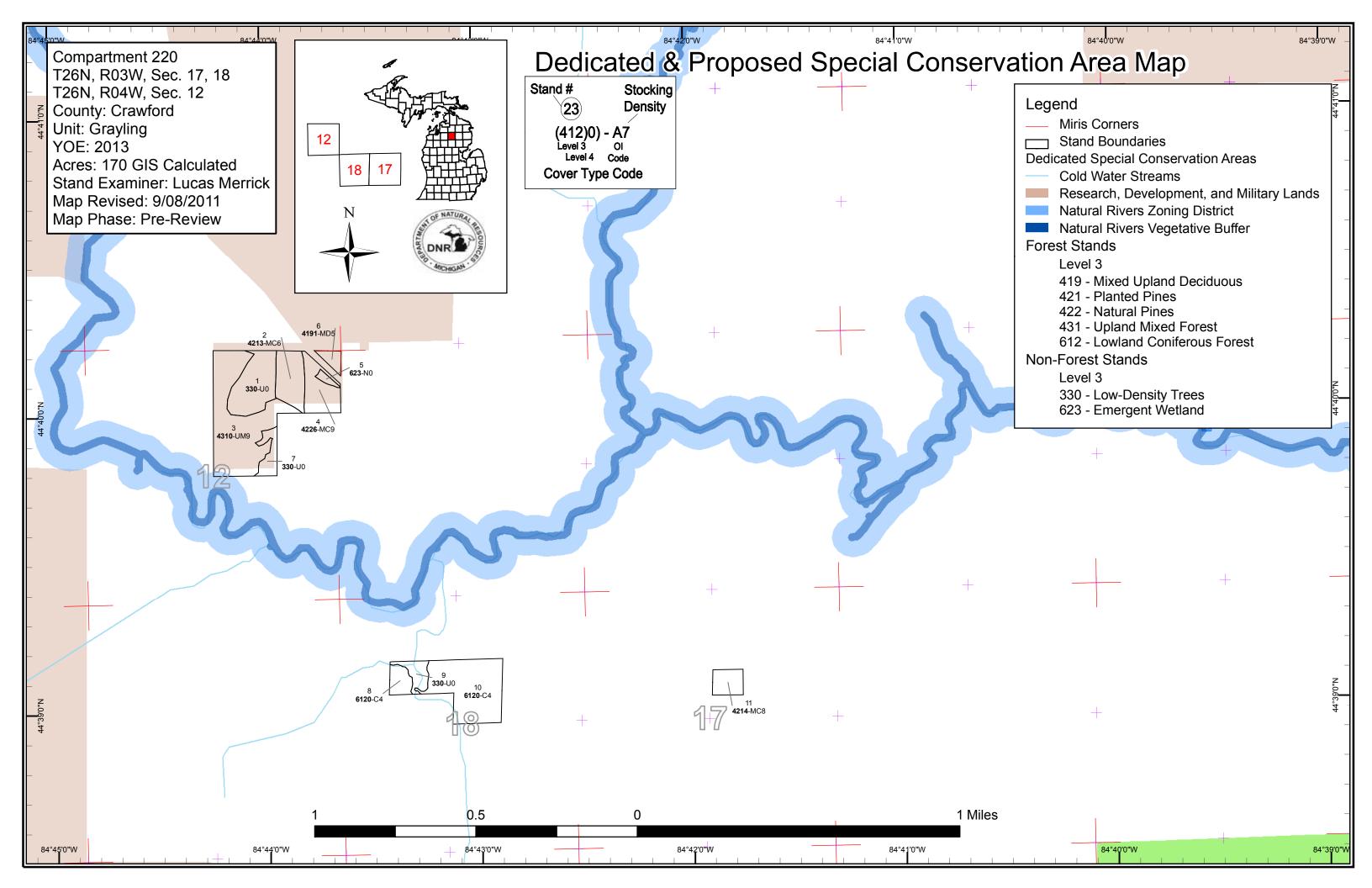
**Recreational Facilities and Opportunities:** The Beal Plantation walking/hiking trail and Snowmobile Trail #782 are present. Evidence of hunting and gathering activities found throughout the compartment.

**Fire Protection:** Most of this compartment is urban. There is potential for some wildland fire activity in the barren portions of the compartment found section 12. Equipment access will be an issue for any events found around Simpson Creek.

- > The following reports are available:
  - **♦** Total Acres by Cover Type and Age Class
  - **♦** Proposed Treatment Summaries
  - **♦** Dedicated Conservation Area Details
  - **♦** Listing of Forested Stands
  - **♦** Listing of Non-Forested Stands
  - **♦** Proposed Treatments with No Limiting Factor
  - **♦** 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
  - **♦** Dedicated & Proposed Special Conservation Areas







Compartment 220 Year of Entry 2013

Grayling Mgt. Unit
Lucas Merrick : Examiner



#### Age Class

Age class																	
	Hoc	Do No.	9. /	\$2.0	25.5	,	LO. L.	\$5.05 /	8,0	R. J.	8 8	8 /	00,700	812	20 <sup>*</sup> /30		, so ,
Cedar	0	0	0	0	0	0	0	0	0	44	0	0	0	0	0	44	
Low-Density Trees	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Mixed Upland Deciduous	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3	
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	14	
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	0	7	15	22	
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	50	0	0	0	50	İ
Total	36	0	0	0	0	3	0	0	0	44	0	64	0	7	15	170	l



## **Table 2 – Proposed Treatment Summaries**

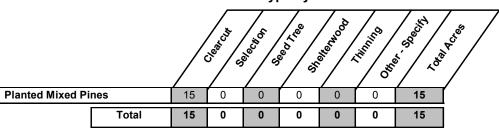
Grayling Mgt. Unit
Year of Entry 2013

**Acres by Treatment Type** 

Commercial Harvest - 15 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 220

**Total Compartment Acres: 169.8** 

Grayling Mgt. Unit

#### Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 220 Year of Entry 2013

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a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	72220002-Cut	14.8	42130 - Planted	High Density Pole	46	Harvest	Clearcut	42120 - Planted Jack	Cmpt. Review

Prescription Remove as much scotch pine from the area as possible. Do not retain this species within the sale area. Make efforts to destroy any scotch pine regen. Suggest replanting to jack pine as long as it will not impact airport operations. Specs:

<u>Other</u>

Chipping will be required and woody biomass will not be applied to facilitate planting and military needs. Found a rebar in the NW corner of

Comments: Plantation

trench and plant after havest. <u>Next</u>

Steps:

s

**Total Treatment** 

14.8 Acreage Proposed:

Grayling Mgt. Unit Table 4 -- Treatments Prescribed with Compartment: 220 a Limiting Factor s Year of Entry 2013 t **Treatment** n Treatment **Acres** Stage1 Size Stand **Treatment Cover Type Approval** Name CoverType Density Method Objective Status Age Type d #Error **Prescription** Specs: <u>Other</u> Comment: <u>Next</u> Steps: Limiting Factor and No

Total Treatment Acreage Proposed:

Treatment Reason

0

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

Year of Entry: 2013

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

Total Treatment Acreage Proposed:

0

s t	Grayling	Grayling Mgt. Unit				Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	42130 - Planted Scotch Pine	High Density Pole	14.8	Uneven Age	81-110	Scotch pine plantation.
3	4310 - Pine, Oak Mix	High Density Log	49.8	107	111-140	A mixed pine and oak stand.
4	42260 - Natural Pine, Mixed Deciduous	High Density Log	14.4	108	111-140	An average mixed pine stand w/ a red maple and mixed pine understory.
6	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	3.2	40	51-80	Small stand created because of RR row.
8	6120 - Lowland Cedar	Low Density Pole	5.8	80		Lowland conifer swamp
10	6120 - Lowland Cedar	Low Density Pole	38.3	80	1-50	Deer activity is very high in this area. Excellent horizontal structure.
11	42140 - Planted Mixed Pine	Medium Density Log	7.5	123	111-140	Beal plantation, walking trail in stand.

#### 6 - Nonforested Stands

Compartment: 220 Year of Entry: 2013



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	3303 - Mixed Low Density Trees	22.2	N\A	Unspecified	Stand is slowly seeding in w/ trees.
5	6230 - Cattail	1.5	N\A	Unspecified	Cattail lowland
7	3303 - Mixed Low Density Trees	6.3	N\A	Unspecified	Slowly seeding in.
9	3302 - Low Density Conifer Trees	6.0	No	Unspecified	With removal of old dam this area is starting to dry out a little. Simpson Ck found within stand.

Grayling Mgt. Unit

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### 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.

Stand	SCA Type	SCA Name	Acres	Comments

Grayling Mgt. Unit

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#### **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.

Conservatio Area	n Type	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.	ies (e.g., slimy sculpin) to persist from see conditions due to substantial
SCA	Concentrated Recreation Area	Facilities that are designed and maintained for routine or heavy r State Forest campgrounds, motorized and non-motorized trails, t access sites.	
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.	endangered species, as governed by Part and Environmental Protection Act, 1994 is an active program, with proposed
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from sp approved distance from the river centerlines. The Natural Rivers most Natural Rivers. The Vegetative Buffer ranges from 25 to 10 and Vegetative Buffers for each Natural River see the table locat folder.	S Zoning District is a 400 foot buffer for 00 feet. To view specific Zoning Districts
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated fo include the 5,847 acre Forest Fire Experiment Station, the 12,00 Area, the Beaver Islands Archipelago Wildlife Research Area (th High and Hog Islands, all state owned land on Beaver, South Fo Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Re Nursery, and over 144,000 acres of Military Lands.	0 acre Houghton Lake Wildlife Research at includes most of Garden Island, all of x and North Fox Islands), the Cusino