



## GRAYLING FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 224 ENTRY YEAR: 2011

GIS Compartment Acreage: 526 acres County: Crawford

---

**Revision Date:** 8/23/09

**Stand Examiner:** Susan Thiel & Patrick Cotant

**Legal Description:** T25N R3W Sections 4, 5, & 6 Beaver Creek Township

**Management Goals:** To maintain forest health, productivity, sustainability, species diversification, and structural diversity throughout the compartment while providing for multiple use and visual management.

**Soils and Topography:** Terrain is level to slightly rolling. Soils consist of primarily Graycalm and Grayling sands. These soils are excessively drained with a low water-holding capacity.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** This compartment is very fractionalized and consists of state lands interspersed with private lands, much of which are residential. Historically this compartment used to be much larger. Over the past twenty years, lands have been disposed of to facilitate the Weyerhaeuser Manufacturing facility as well as sold for industrial and commercial use along Four Mile Road and I-75. These disposals have resulted in a compartment with small state ownership that is bisected, with parcels of state land on the far east and far west ends of the compartment.

**Unique, Natural Features** The compartment has potential to contain pine barrens species in the jack pine/oak barren types but the only species observed was some rough fescue and a few Hill's Thistle, a plant of special concern.

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

**Special Management Designations or Considerations:** The compartment contains some historical MIMS research plots.

**Watershed and Fisheries Considerations:** There are no water bodies within the compartment. This area overlies the aquifer that feeds the AuSable River.

**Wildlife Habitat Considerations:** The compartment has been heavily treated in the past, resulting in younger age classes of aspen and pine. The small size of the ownership limits opportunities and habitat, but a great diversity of song birds were noted in the area and deer sign were observed. The compartment will offer some hunting opportunities, but set backs from residential areas and interface along I-75 limit hunting a large part of the ownership.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift is the Michigan Formation. The Michigan is quarried for gypsum elsewhere in the State. A gravel pit is located one mile to the south and potential is good on the

uplands. Part of the Compartment was recently leased for oil and gas development. Currently the compartment does not contain any developed oil/gas wells or facilities.

**Vehicle Access:** Access to the compartment can be easily obtained via County roads of Four Mile and Five Mile, which bound the compartment on the north and south edges. There are limited state forest trails in the compartment. Former logging trails were blocked off and not passable by vehicle. Private roads of Gaberdiel Lane and Williams Trail lead up to the state land. A railroad track bisects the state ownership on the east end, limiting access. I-75 and US-127 bisect the compartment, limited access from the east to the west except using the bridge on Four Mile Road.

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

**Recreational Facilities and Opportunities:** The compartment contains no designated recreational trails or facilities. These properties can host dispersed recreational opportunities, but opportunities are limited due to the smaller size of the parcels of state land and the interface with residential development..

**Fire Protection:** The compartment contains some high fire hazard types which are intermixed with hardwoods. Overall, fire hazard for the compartment is moderate. This compartment will deal more with the urban interface issue.

**LOTS Compartment Acreage:** 540 acres

- **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

Compartment 224  
 T25N, R03W, Sec. 4, 5, 6  
 County: Crawford  
 Unit: Grayling  
 YOE: 2011  
 Acres: 526 GIS Calculated  
 Stand Examiner: Susan Thiel  
 Map Revised: 8/23/2009  
 Map Phase: Pre-Review

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

**Legend**

- Miris Corners
- Highways
- Paved Road
- Poor Dirt Road
- Railroads
- Intermittent Stream/Drain
- Stream
- Trails
- Snowmobile Trails
- Interstate Highway
- US Highway
- Lakes and Rivers

**Treatments**

- Clearcut (w/Reserves, Patch/Strip)

**Forest Stands**

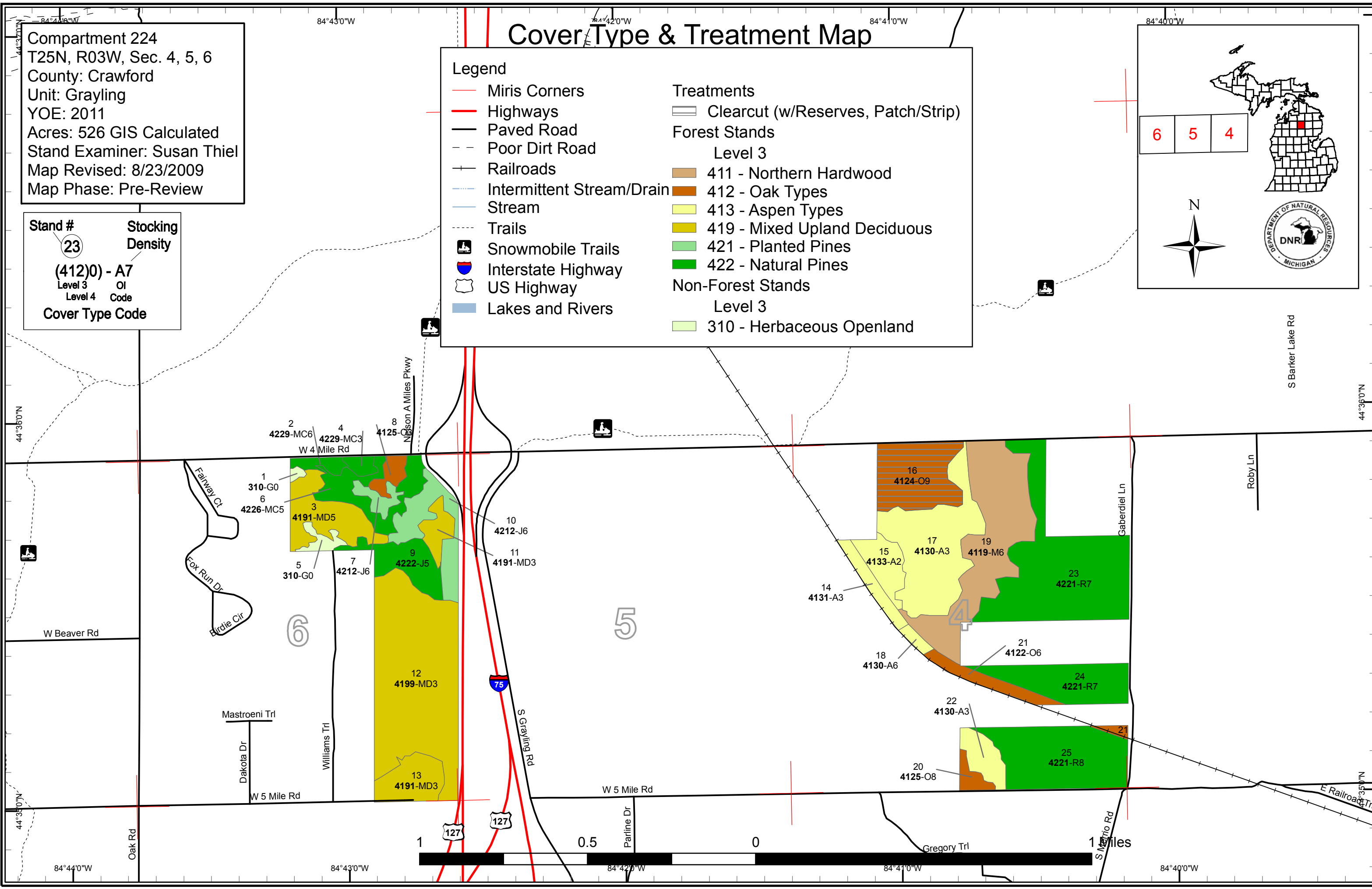
Level 3

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines

**Non-Forest Stands**

Level 3

- 310 - Herbaceous Openland



# Stand Boundary Map

Compartment 224  
 T25N, R03W, Sec. 4, 5, 6  
 County: Crawford  
 Unit: Grayling  
 YOE: 2011  
 Acres: 526 GIS Calculated  
 Stand Examiner: Susan Thiel  
 Map Revised: 8/23/2009  
 Map Phase: Pre-Review

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

**Legend**

- Miris Corners
- Highways
- Paved Road
- - Poor Dirt Road
- + Railroads
- Intermittent Stream/Drain
- Stream
- - - Trails
- 🛣 Interstate Highway
- 🛞 US Highway
- 🚙 Snowmobile Trails
- 🟡 Stand Boundaries

**Forest Stands**

Level 3

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines

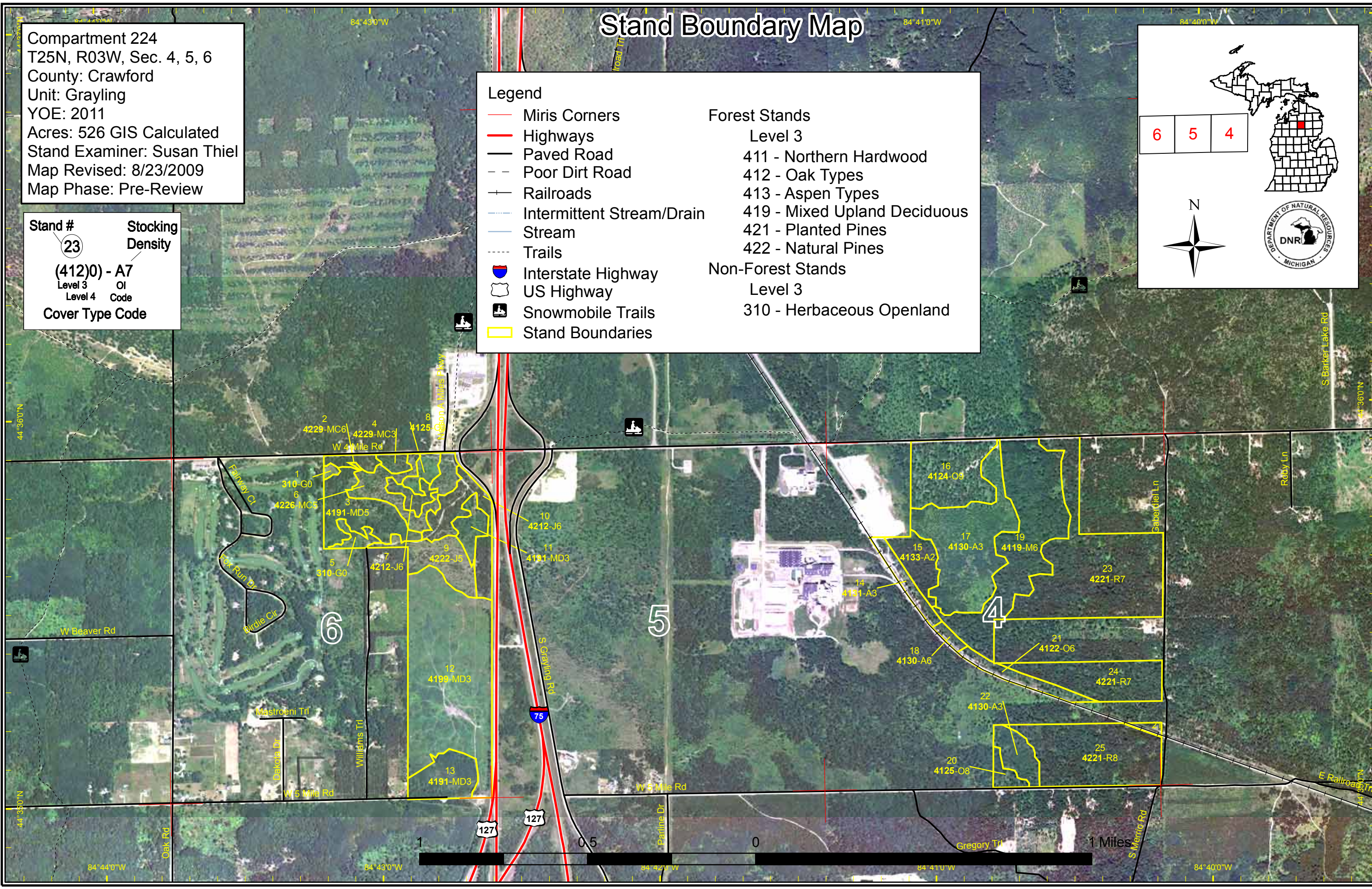
**Non-Forest Stands**

Level 3

- 310 - Herbaceous Openland

6 5 4

N



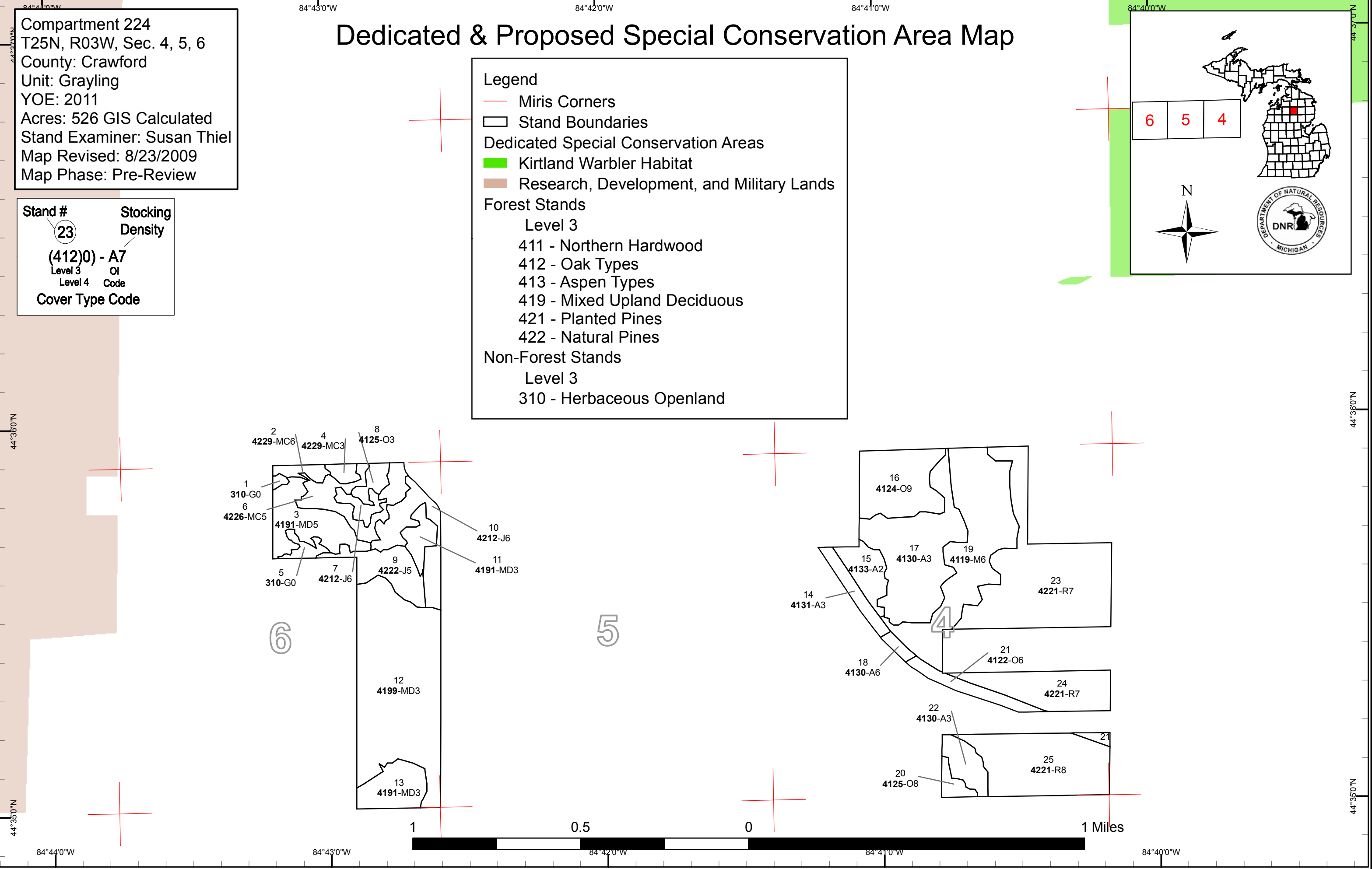
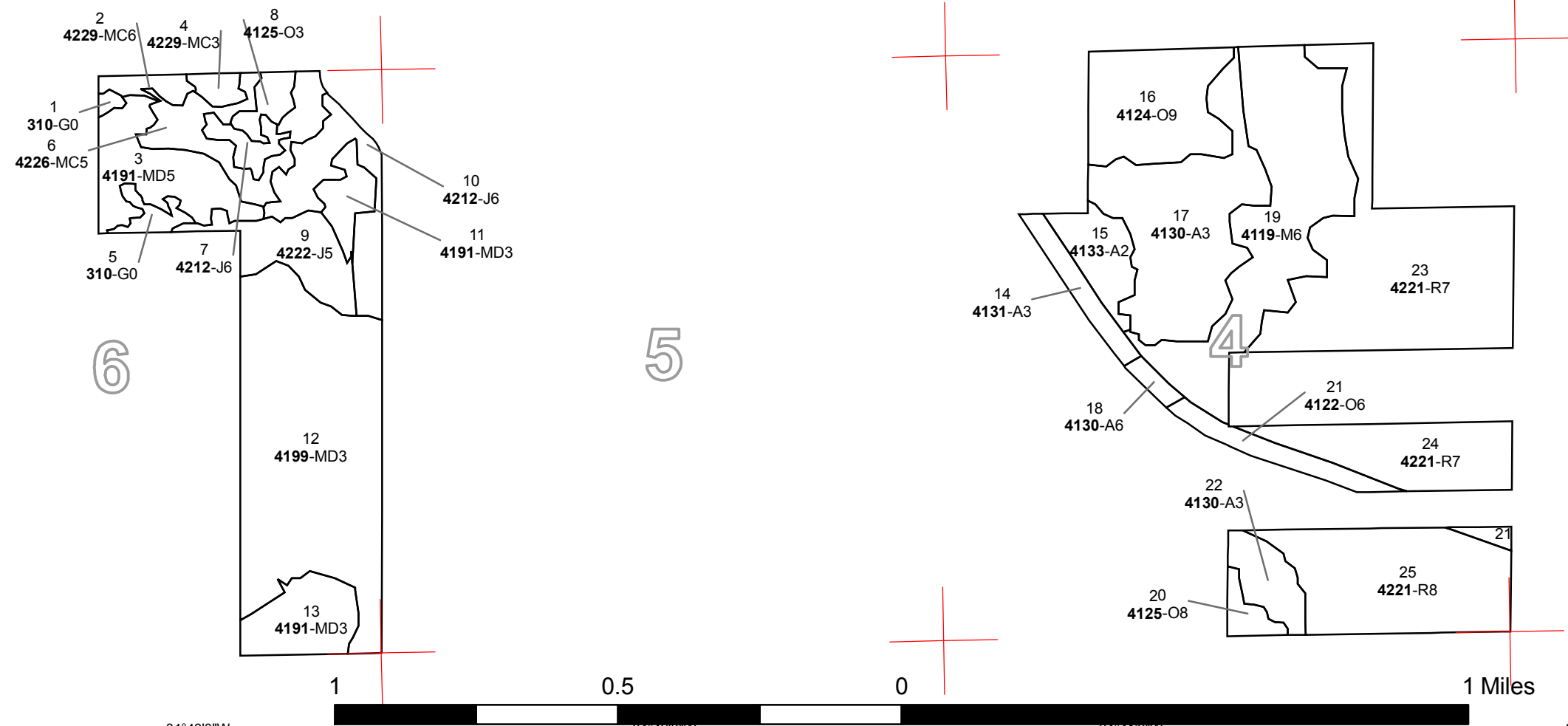
# Dedicated & Proposed Special Conservation Area Map

Compartment 224  
 T25N, R03W, Sec. 4, 5, 6  
 County: Crawford  
 Unit: Grayling  
 YOE: 2011  
 Acres: 526 GIS Calculated  
 Stand Examiner: Susan Thiel  
 Map Revised: 8/23/2009  
 Map Phase: Pre-Review

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

**Legend**

- Miris Corners
- Stand Boundaries
- Dedicated Special Conservation Areas**
- Kirtland Warbler Habitat
- Research, Development, and Military Lands
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- Non-Forest Stands**
- Level 3
- 310 - Herbaceous Openland



Grayling Mgt. Unit

**Covertypes, Acres, and Age summary**  
(Level 3 Cover Type)

Compartment 224 Year of Entry 2011

Report Date: 09/08/2009



	Age Class															
	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	Total
Aspen Types	0	11	66	0	0	2	0	0	0	0	0	0	0	0	0	79
Herbaceous Openland	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	87	22	0	0	0	0	0	0	0	0	0	0	0	22	131
Natural Pines	0	0	3	18	16	71	4	70	0	0	0	0	0	0	0	182
Northern Hardwood	0	0	0	0	58	0	0	0	0	0	0	0	0	0	0	58
Oak Types	0	0	5	0	10	0	0	0	0	33	0	0	0	0	0	48
Planted Pines	0	0	0	0	18	0	5	0	0	0	0	0	0	0	0	23
<b>Total</b>	<b>5</b>	<b>98</b>	<b>95</b>	<b>18</b>	<b>102</b>	<b>74</b>	<b>9</b>	<b>70</b>	<b>0</b>	<b>33</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>526</b>

**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
16 72224016-Cut	29.4	4124 - Red with White Oak	High Density Log	81	Harvest	Clearcut with Reserves	Mixed Upland Forest

Rev Cmnt: Long term obj is a pine oak mix.

Rev Spec: Final harvest with leaving some healthy oak for mast and regeneration. Try to cut as much oak as possible to promote stump sprouting. May need to P burn after harvest to discourage or set back red maple. See similiar stand across road- Sad Dog Block. After burn, evaluate pine component. If no pine is naturally regenerating in stand, then underplant some red or white pine to allow stand to revert back to a pine oak mix.

Next Steps: Harvest what oak and red maple you can.

---

**Total Treatment  
Acreage Proposed: 29.4**

**PROPOSED TREATMENTS  
WITH LIMITING FACTORS**



S  
t  
a  
n  
d

---

Treatment Name	Acres	Stage1 Cover Type	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Page 1 of 1
----------------	-------	-------------------	--------------	-----------	----------------	------------------	----------------------	-------------

---

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

<b>Conservation Area</b>	<b>Type</b>	<b>Description</b>
--------------------------	-------------	--------------------

---

---