



# COMPARTMENT REVIEW PRESENTATION

## GAYLORD FOREST MANAGEMENT UNIT

### COMPARTMENT: 106

ENTRY YEAR: 2014

ACREAGE: 1,414

COUNTY: Emmet

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**Revision Date:** 05/08/2012

**Stand Examiner:** Tricia Mitchell

**Legal Description:** T38N R06W Sec. 23-26, 35, 36

**Management Goals:** To provide for the protection, integrated management and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan.

**Soil and Topography:** This compartment has variable topography, becoming increasingly hilly as you travel north and west. Sections, T38N-R6W, Emmet County: Surface sediments consist of dune sand in the north and lacustrine (lake) sand and gravel. The glacial drift thickness varies between 200 and 600 feet. The Devonian Detroit River Group subcrops below the glacial drift.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Private ownership abuts the entire southern and western boundaries of this compartment, also a segment of the eastern boundary. State ownership continues entirely on the northern most boundaries of section 24, and along the majority of the eastern boundary, with exception again of the aforementioned segment of private ownership.

The area is highly used for recreational purposes, including hiking, camping, fishing, and watercraft (both motorized and non-motorized). A popular tourist Scenic Byway passes within this compartment, also giving access to Wilderness State Park to the north.

**Unique, Natural Features:** The north side of the lake is comprised of treed inland dunes, the terrain is very steep, on the dunes the soils are very dry but in the valleys there are wet areas that are forested by cedar and other lowland conifers.

Loon occurrence has been documented within this compartment. The potential for nesting bald eagles, northern goshawks, merlins, red-shouldered hawks, and ospreys exists, though there are no known occurrences within this compartment.

There are sensitive species to the west and north of this compartment, including pitcher's thistle, brome rape, lake huron tansy, piping plover, and lake huron locust. Within the compartment, potential exists for rare plants of dry northern forests and dry mesic northern forests, including Dalibarda repens, pine drops, calypso bulbosa, beauty sedge, round leaved orchid, limestone oak fern, and Cypripedium arietinum in cedar and lowland types. There is also the possibility for Michigan Monkey flower.

**Archeological, Historical, and Cultural Features:** There are archaeological concerns within sections 25, 26, and 35.

**Special Management Designations or Considerations:** A significant portion of this compartment has been recommended for SCA nomination in areas typed for sensitive dune and piping plover habitat.

**Watershed and Fisheries Considerations:** This compartment contains portions of Wycamp Lake and Wycamp Creek. Wycamp Lake is a shallow lake known for its northern pike fishery. Wycamp Creek is a transitional cold/cool water Lake Michigan tributary stream that has been known to host runs of Chinook and Coho salmon in the early fall. Treatments in this compartment should strictly adhere to buffers and BMP's along the lake, stream, and adjacent wetland area to maintain the quality of this system.

**Wildlife Habitat Considerations:** This compartment lies around the western edge of Wycamp Lake which supports a variety of wetland associated species including: waterfowl, loons, bald eagles, furbearers, and various amphibians. The southern portion of the compartment contains a good mix of aspen age classes and also has a large mixed deciduous stand with a nice mix of oak. This area is utilized by white-tailed deer, grouse, wild turkey, and woodcock. The northern portion of this compartment lies on remnant coastal dune which consists mainly of red pine, jack pine and oak. This area is used heavily by white-tailed deer due to the hard mast production.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of dune sand in the north and lacustrine (lake) sand and gravel. The glacial drift thickness varies between 200 and 600 feet. The Devonian Detroit River Group subgroups below the glacial drift. The nearest gravel pit is located over two miles to the southeast and potential appears to be limited. The nearest oil and gas production, the Antrim Shale gas play, is located 36 miles to the southeast. There is no known oil and gas potential in the area.  
Note: Dune sand near Lake Michigan is in critical dune area.

**Vehicle Access:** Access is good throughout the majority of the compartment with the exception of property adjacent to private land on the west edge of section 24.

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

**Recreational Facilities and Opportunities:** This compartment a portion of the North Country Trail running through all sections except for section 23. There is a boating access site on Wycamp

Lake in section 25 and access to Lake Michigan through the north end of section 24 (continuing into Wilderness State Park in section 13).

**Fire Protection:** There exists some threat of fire especially through the red and jack pine dominated forests within this compartment, but fire danger is relatively low on the whole.

**Additional Compartment Information:**

- **The following 3 reports from the IFMAP Inventory System are attached:**
  - ◆ **Cover Type by Age Class**
  - ◆ **Proposed Treatments – No Limiting Factors**
  - ◆ **Proposed Treatments – With Limiting Factors**

➤ **The following information is displayed, where pertinent, on the attached compartment maps:**

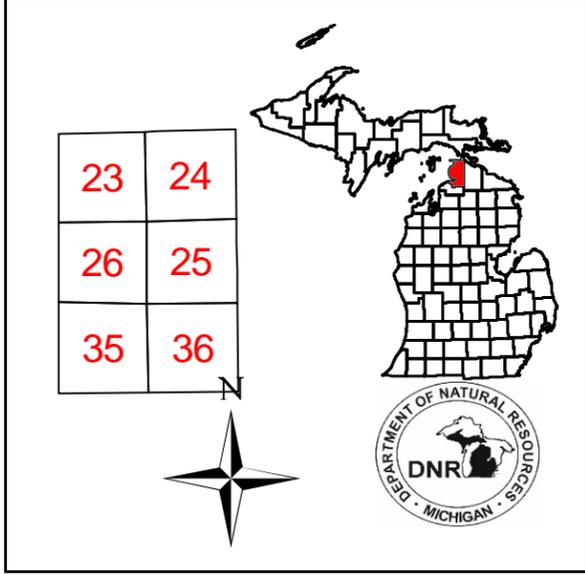
- ◆ **Base feature information, stand numbers, cover types**
- ◆ **Proposed treatments**
- ◆ **Proposed road access system**
- ◆ **Suggested potential and current SCA's**

# Cover Type & Treatment Map

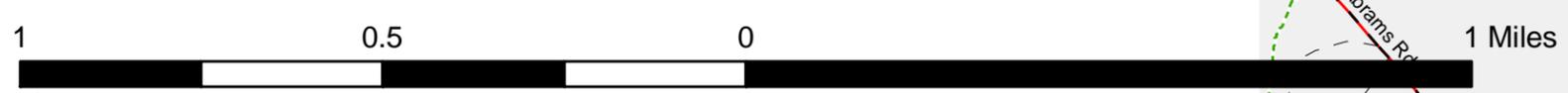
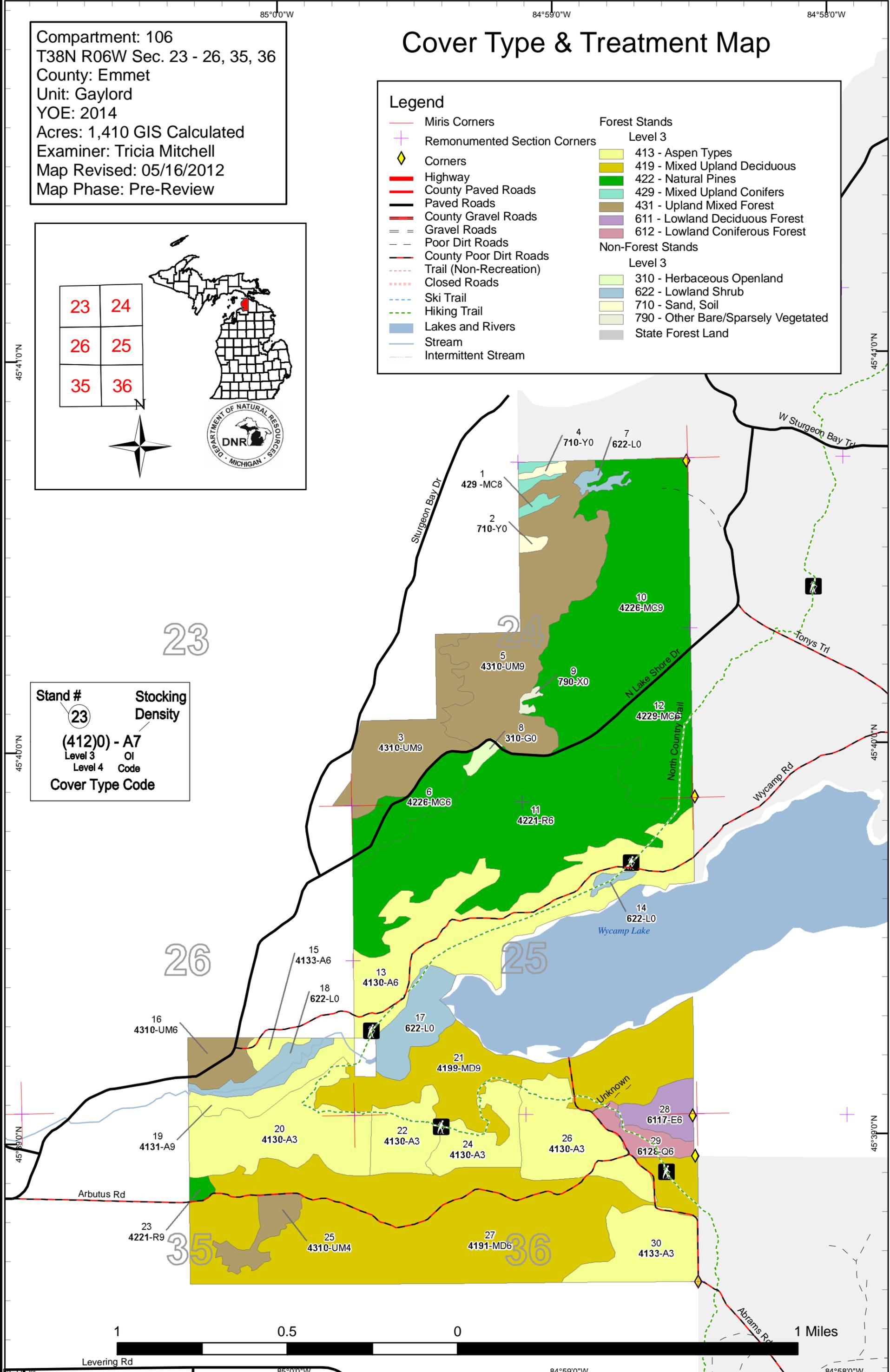
Compartment: 106  
 T38N R06W Sec. 23 - 26, 35, 36  
 County: Emmet  
 Unit: Gaylord  
 YOE: 2014  
 Acres: 1,410 GIS Calculated  
 Examiner: Tricia Mitchell  
 Map Revised: 05/16/2012  
 Map Phase: Pre-Review

### Legend

—+—	Miris Corners	Forest Stands
—+—	Remonumented Section Corners	Level 3
◆	Corners	413 - Aspen Types
—	Highway	419 - Mixed Upland Deciduous
—	County Paved Roads	422 - Natural Pines
—	Paved Roads	429 - Mixed Upland Conifers
—	County Gravel Roads	431 - Upland Mixed Forest
—	Gravel Roads	611 - Lowland Deciduous Forest
—	Poor Dirt Roads	612 - Lowland Coniferous Forest
—	County Poor Dirt Roads	Non-Forest Stands
—	Trail (Non-Recreation)	Level 3
—	Closed Roads	310 - Herbaceous Openland
—	Ski Trail	622 - Lowland Shrub
—	Hiking Trail	710 - Sand, Soil
—	Lakes and Rivers	790 - Other Bare/Sparsely Vegetated
—	Stream	State Forest Land
—	Intermittent Stream	



Stand #	Stocking Density
23	(412)0 - A7
	Level 3 OI
	Level 4 Code
<b>Cover Type Code</b>	



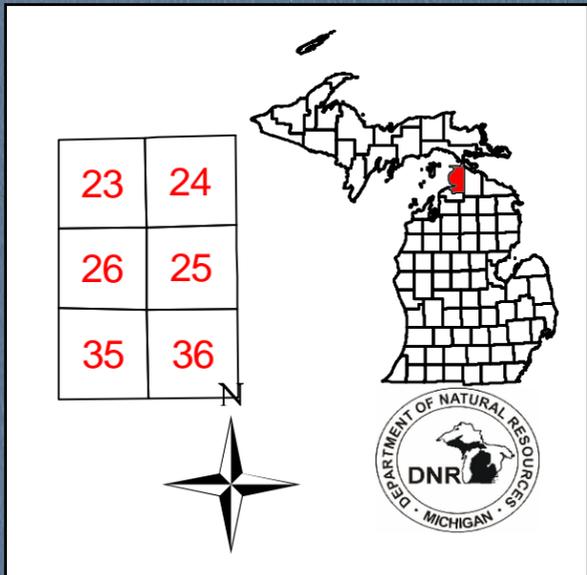
85°00'W 84°59'0"W 84°58'0"W 45°41'0"N 45°40'0"N 45°39'0"N

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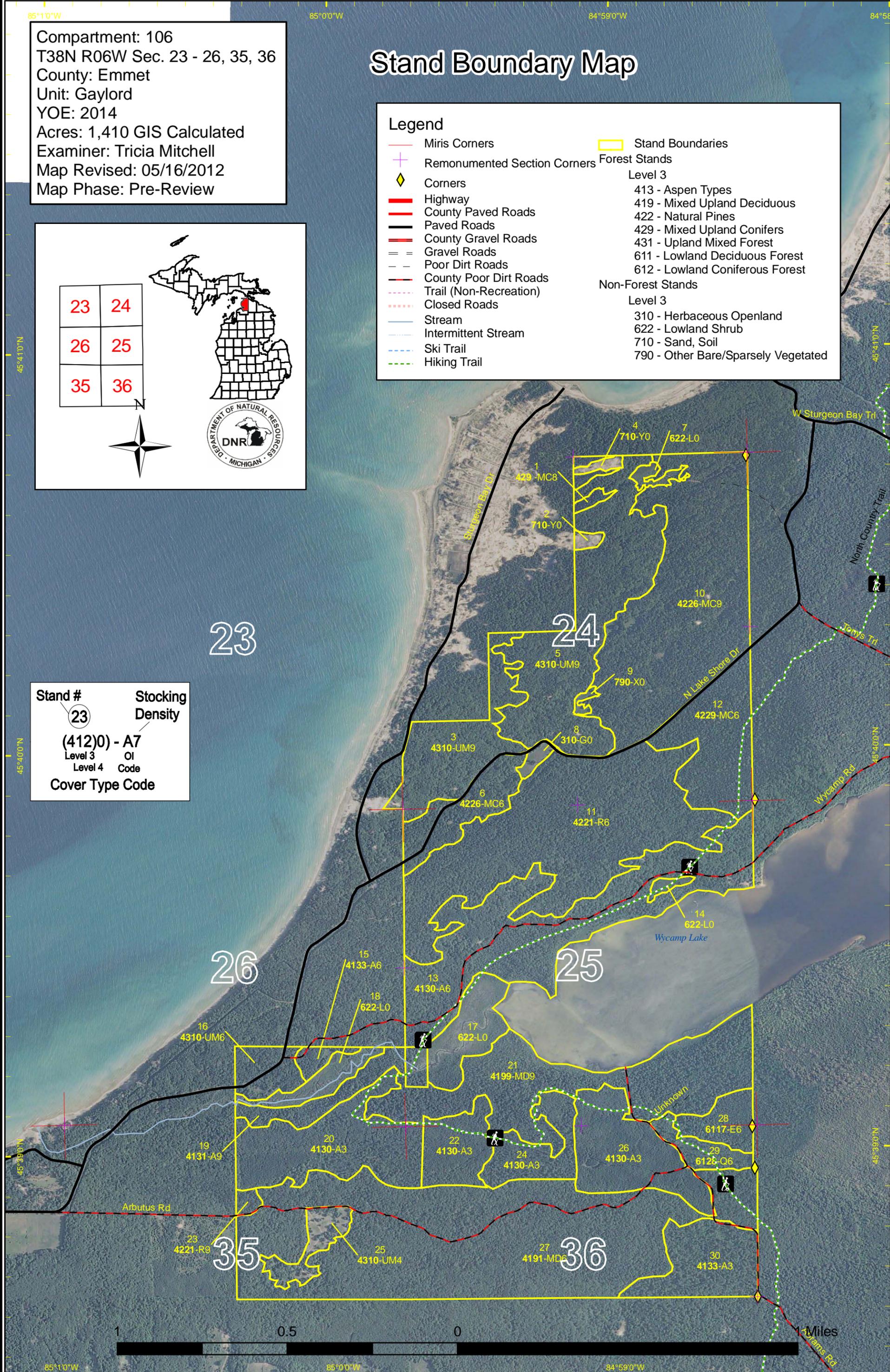
# Stand Boundary Map

## Legend

- |   |                              |   |                                     |
|---|------------------------------|---|-------------------------------------|
| — | Miris Corners                | □ | Stand Boundaries                    |
| + | Remonumented Section Corners |   | Forest Stands                       |
| ◆ | Corners                      |   | Level 3                             |
| — | Highway                      |   | 413 - Aspen Types                   |
| — | County Paved Roads           |   | 419 - Mixed Upland Deciduous        |
| — | Paved Roads                  |   | 422 - Natural Pines                 |
| — | County Gravel Roads          |   | 429 - Mixed Upland Conifers         |
| — | Gravel Roads                 |   | 431 - Upland Mixed Forest           |
| — | Poor Dirt Roads              |   | 611 - Lowland Deciduous Forest      |
| — | County Poor Dirt Roads       |   | 612 - Lowland Coniferous Forest     |
| — | Trail (Non-Recreation)       |   | Non-Forest Stands                   |
| — | Closed Roads                 |   | Level 3                             |
| — | Stream                       |   | 310 - Herbaceous Openland           |
| — | Intermittent Stream          |   | 622 - Lowland Shrub                 |
| — | Ski Trail                    |   | 710 - Sand, Soil                    |
| — | Hiking Trail                 |   | 790 - Other Bare/Sparsely Vegetated |



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



# Dedicated & Proposed Special Conservation Area Map

Compartment: 106  
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**Legend**

- Miris Corners
- + Remonumented Section Corners
- Stand Boundaries
- Proposed Special Conservation Areas
  - ▨ SCA - Special Conservation Area
  - ▩ SCA Removal
- Dedicated Special Conservation Areas
  - Critical Dunes
  - Critical Coastal Habitat (Piping Plover) Non-Forest Stands
  - Cold Water Streams

**Forest Stands**

**Level 3**

- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

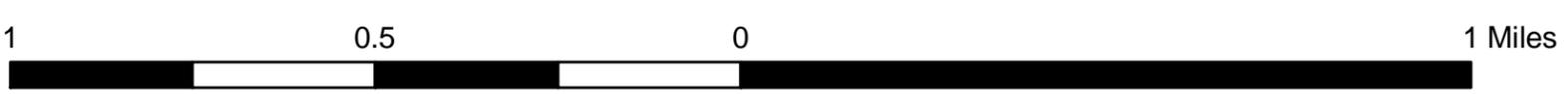
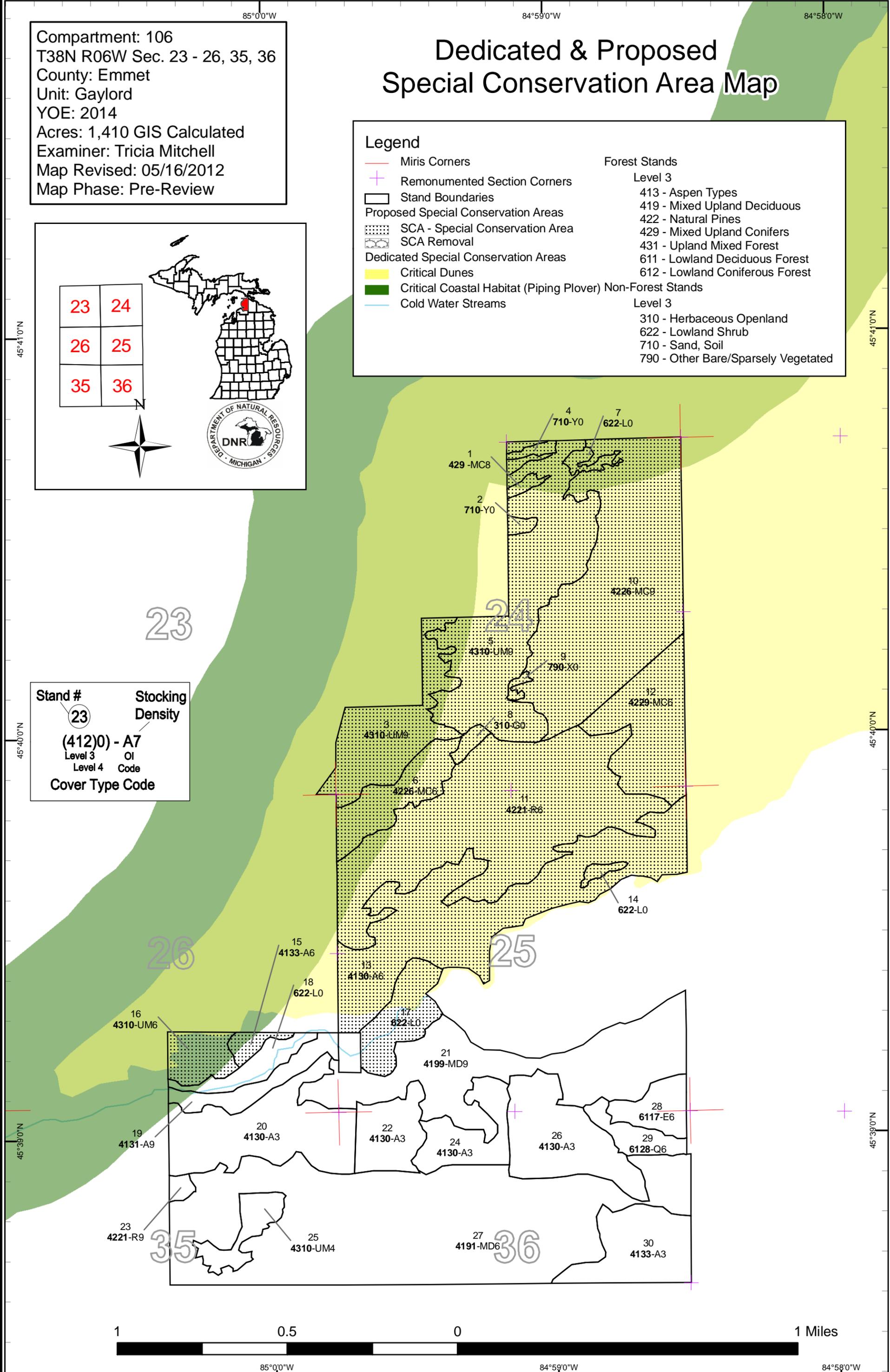
**Level 3**

- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 710 - Sand, Soil
- 790 - Other Bare/Sparsely Vegetated

23 24  
 26 25  
 35 36

**Stand #**      **Stocking Density**

23  
 (412)0 - A7  
 Level 3      OI  
 Level 4      Code  
**Cover Type Code**



85°00'W      84°59'0"W      84°58'0"W

45°41'0"N      45°40'0"N      45°39'0"N

**Table 1 – Total Acres by Cover Type and Age Class**



	Age Class													Total	
	0-9	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
Aspen	0	132	76	0	0	0	0	125	5	0	0	0	0	18	356
Bare/Sparsely Vegetated	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Conifers	0	0	0	0	0	0	0	0	13	0	0	0	0	0	13
Lowland Deciduous	0	0	0	0	0	0	0	0	0	16	0	0	0	0	16
Lowland Shrub	47	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Mixed Upland Deciduous	0	0	0	0	0	0	257	0	0	0	0	0	0	108	365
Natural Mixed Pines	0	0	0	29	0	209	0	0	0	0	0	0	0	0	238
Red Pine	0	0	0	0	0	167	0	0	0	0	3	0	0	0	170
Sand, Soil	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
Upland Mixed Forest	0	0	15	0	0	0	0	50	0	109	0	0	0	17	190
<b>Total</b>	<b>57</b>	<b>132</b>	<b>90</b>	<b>29</b>	<b>0</b>	<b>375</b>	<b>257</b>	<b>175</b>	<b>18</b>	<b>126</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>148</b>	<b>1410</b>



## Table 2 – Proposed Treatment Summaries

**Gaylord Mgt. Unit**  
**Year of Entry 2014**

**Compartment 106**  
**Total Compartment Acres: 1410**

### Acres by Treatment Type

Commercial Harvest - 0	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

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
	#Error	#Error	#Error	#Error	#Error	#Error	#Error
<b>Total</b>	#Error	#Error	#Error	#Error	#Error	#Error	#Error



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Error

Prescription  
Specs:

Other  
Comments:

Next  
Steps:

Proposed  
Start Date: #Error

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**Total Treatment  
Acreage Proposed: 0**

**Table 4 -- Treatments Prescribed with  
a Limiting Factor**



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Error

Prescription  
Specs:

Other  
Comment:

Next  
Steps:

Proposed  
Start Date: #Error

Limiting Factor and No  
Treatment Reason

**Total Treatment  
Acreage Proposed: 0**

Out of YOE -- Treatments  
Prescribed with No Limiting Factor

Year of Entry: 2014



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

Other  
Comments:

Next  
Steps:

Proposed  
Start Date: #Error

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**Total Treatment  
Acreage Proposed: 0**

Stand	Gaylord Mgt. Unit		5 – Forested Stands			Compartment: 106	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2014	
1	429 - Mixed Upland Conifers	Medium Density Log	5.4	Uneven Age	81-110		Uneven aged
3	4310 - Pine, Oak Mix	High Density Log	50.1	70	51-80		
5	4310 - Pine, Oak Mix	High Density Log	109.2	98	111-140		factor limit. terrain, access, soils make this impractical to treat. old trail?
6	42260 - Natural Pine, Mixed Deciduous	High Density Pole	29.0	38	81-110		
10	42260 - Natural Pine, Mixed Deciduous	High Density Log	156.3	54	111-140		variable within stand.
11	42210 - Natural Red Pine	High Density Pole	166.8	57	81-110		few scattered xl oak, wp. 22-26".
12	42290 - Natural Mixed Pine	High Density Pole	52.3	53	81-110		few super canopy rp, wp, ro.
13	4130 - Aspen	High Density Pole	125.3	76	81-110		NCT goes through. Consider cutting pockets, avoiding low areas as best as possible.
15	4133 - Aspen, Mixed Pine	High Density Pole	5.4	89	111-140		
16	4310 - Pine, Oak Mix	High Density Pole	16.5	Uneven Age	111-140		low pocket <1ac of wc85, rp/wp8, pb2, bta5.
19	4131 - Aspen, Oak	High Density Log	18.0	Uneven Age	51-80		woody debris of aspen, birch. some dead ash (not from eab), <2% living in canopy.
20	4130 - Aspen	High Density Sapling	65.9	18	1-50		
21	4199 - Other Mixed Upland Deciduous	High Density Log	108.4	Uneven Age			
22	4130 - Aspen	High Density Sapling	25.3	25	1-50		
23	42211 - Natural Red Pine, Mixed Deciduous	High Density Log	3.0	106	111-140		
24	4130 - Aspen	High Density Sapling	26.5	14			super canopy ro, ab, wp, eh, bf. <5% total.
25	4310 - Pine, Oak Mix	Low Density Pole	14.5	20	1-50		Stand swapped from Non-Forested to Forested.
26	4130 - Aspen	High Density Sapling	50.6	28	1-50		



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Gaylord Mgt. Unit

5 – Forested Stands

Compartment: 106  
Year of Entry: 2014



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
27	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	256.6	67	51-80	
28	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	16.3	92	111-140	old growth potential. heavy browsing and limited regen.
29	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	12.6	80	111-140	
30	4133 - Aspen, Mixed Pine	High Density Sapling	39.4	12	1-50	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	710 - Sand, Soil	2.3	No	Unspecified	
4	710 - Sand, Soil	2.5	No	Unspecified	Stand swapped from Non-Forested to Forested. Stand swapped from Forested to Non-Forested.
7	6229 - Mixed lowland shrub	3.9	No	Unspecified	
8	3102 - Grass	3.5	No	Unspecified	
9	790 - Other Bare/Sparsely Vegetate	1.7	No	Unspecified	
14	6220 - Alder/willow	2.5	No	Unspecified	Stand swapped from Non-Forested to Forested. Stand swapped from Forested to Non-Forested.
17	6220 - Alder/willow	26.7	No	Unspecified	
18	6220 - Alder/willow	13.7	No	Unspecified	Stand swapped from Forested to Non-Forested.



## 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
1	Unique Site - SCA	52106001	5.4	Stand is located in critical dunes and piping plover habitat. Was coded as stand condition 8 in OI. Coding needs to be maintained.
3	Unique Site - SCA	52106003	50.1	Stand is located in critical dunes and piping plover habitat. Was coded as stand condition 8 in OI. Coding needs to be maintained.
5	Unique Site - SCA	52106005	109.2	Stand is located in critical dunes and piping plover habitat. Was coded as stand condition 8 in OI. Coding needs to be maintained.
6	Unique Site - SCA	52106006	29.0	Stand is located in critical dunes and piping plover habitat. Was coded as stand condition 8 in OI. Coding needs to be maintained.
10	Unique Site - SCA	52106010	156.3	Stand is located in critical dunes and piping plover habitat. Was coded as stand condition 8 in OI. Coding needs to be maintained.
11	Unique Site - SCA	52106011	166.8	Stand is located in critical dunes and piping plover habitat. Was coded as stand condition 8 in OI. Coding needs to be maintained.
12	Unique Site - SCA	52106012	52.3	Stand is located in critical dunes and piping plover habitat. Was coded as stand condition 8 in OI. Coding needs to be maintained.
13	Unique Site - SCA	52106013	125.3	Stand is located in critical dunes and piping plover habitat. Was coded as stand condition 8 in OI. Coding needs to be maintained.
15	Unique Site - SCA	52106015	5.4	Stand is located in critical dunes and piping plover habitat. Was coded as stand condition 8 in OI. Coding needs to be maintained.
16	Unique Site - SCA	52106016	16.5	SCA due to sensitivity to shorelines, inland waterways, and recreation/travel.
2	Unique Site - SCA	NF_52106002	2.3	Stand is located in critical dunes and piping plover habitat. Was coded as stand condition 8 in OI. Coding needs to be maintained.
4	Unique Site - SCA	NF_52106004	2.5	Stand is located in critical dunes and piping plover habitat. Was coded as stand condition 8 in OI. Coding needs to be maintained.
7	Unique Site - SCA	NF_52106007	3.9	Stand is located in critical dunes and piping plover habitat. Was coded as stand condition 8 in OI. Coding needs to be maintained.
8	Unique Site - SCA	NF_52106008	3.5	Stand is located in critical dunes and piping plover habitat. Was coded as stand condition 8 in OI. Coding needs to be maintained.



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Stand	SCA Type	SCA Name	Acres	Comments
9	Unique Site - SCA	NF_52106009	1.7	Stand is located in critical dunes and piping plover habitat. Was coded as stand condition 8 in OI. Coding needs to be maintained.
14	Unique Site - SCA	NF_52106014	2.5	Stand is located in critical dunes and piping plover habitat. Was coded as stand condition 8 in OI. Coding needs to be maintained.
17	Unique Site - SCA	NF_52106017	26.7	Stand is located in critical dunes and piping plover habitat. Was coded as stand condition 8 in OI. Coding needs to be maintained.



## 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.

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

Conservation Area	Type	Description
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.
HCVA	Critical Dunes	Critical dune areas are established via the public legislative process, and governed by Part 353, Sand Dune Protection and Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the Michigan Department of Environmental Quality (DEQ). The current distribution of designated critical dunes is established by the DEQ 1989 Atlas of Critical Dune Areas.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.