



COMPARTMENT REVIEW PRESENTATION

GAYLORD FOREST MANAGEMENT UNIT

COMPARTMENT: 109

ENTRY YEAR: 2012

ACREAGE: 943

COUNTY: Emmet

Revision Date: 04/06/2010

Stand Examiner: Shannon Harig

Legal Description: T37N R05W Sec. 5, 9, 12, 13, 15, 16

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: The part of the compartment west of Canby Rd. is level and wet, primarily Carbondale Muck. West of Pleasantview Rd. the topography is rolling with numerous seeps and drainages, primarily Emmet Loamy Sand and Blue Lake Loamy Sand.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State ownership is not contiguous and is mostly surrounded by private property.

Unique, Natural Features:

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations: None

Watershed and Fisheries Considerations: This compartment is within the Maple River watershed, containing portions of Larks Lake and Brush Creek. Brush Creek is a designated trout stream and is classified as a warm-transitional stream. Warm-transitional streams are susceptible to small changes in temperature, which can cause significant changes in species composition. Due to a large number of seeps and drainages in this compartment, no treatments are planned for this compartment for this year of entry.

Wildlife Habitat Considerations: This small compartment lies near Larks Lake in Emmet County and consists of a mix lowland and upland areas. These areas contain various species including white-tailed deer, turkey, black bear, American woodcock, and grouse. No treatments are scheduled for this compartment.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of coarse textured till, glacial outwash sand and gravel and postglacial alluvium and peat and muck. The glacial drift thickness varies between 200 and 600 feet. The Devonian Detroit River formation subcrops below the glacial drift and is mined for salt in the Detroit area. Sand and gravel pits are located on the upland areas in Sections 10, 17, 20 and 23. Sections 12 and 13 have good gravel potential. The nearest oil and gas production, the Antrim Shale gas play, is located 25 miles to the southeast. There is no known oil and gas potential in the area.

Vehicle Access: Limited access to most of the compartment.

Survey Needs: None

Recreational Facilities and Opportunities: Recreational opportunities are limited because of the wet soils.

Fire Protection:

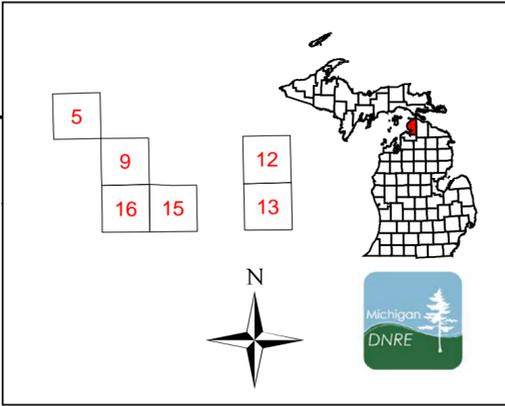
Additional Compartment Information:

- **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

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



Compartment 109
T37N, R05W, Sec. 5, 9, 12, 13, 15, 16
County: Emmet
Unit: Gaylord
YOE: 2012
Acres: 943 GIS Calculated
Stand Examiner: Shannon Harig
Map Revised: 05/27/2010
Map Phase: Pre-Review

Legend

- Miris Corners
- Pipe
- Power
- Paved Roads
- Poor Dirt Roads
- Trails
- Snowmobile Trails
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

Forest Stands

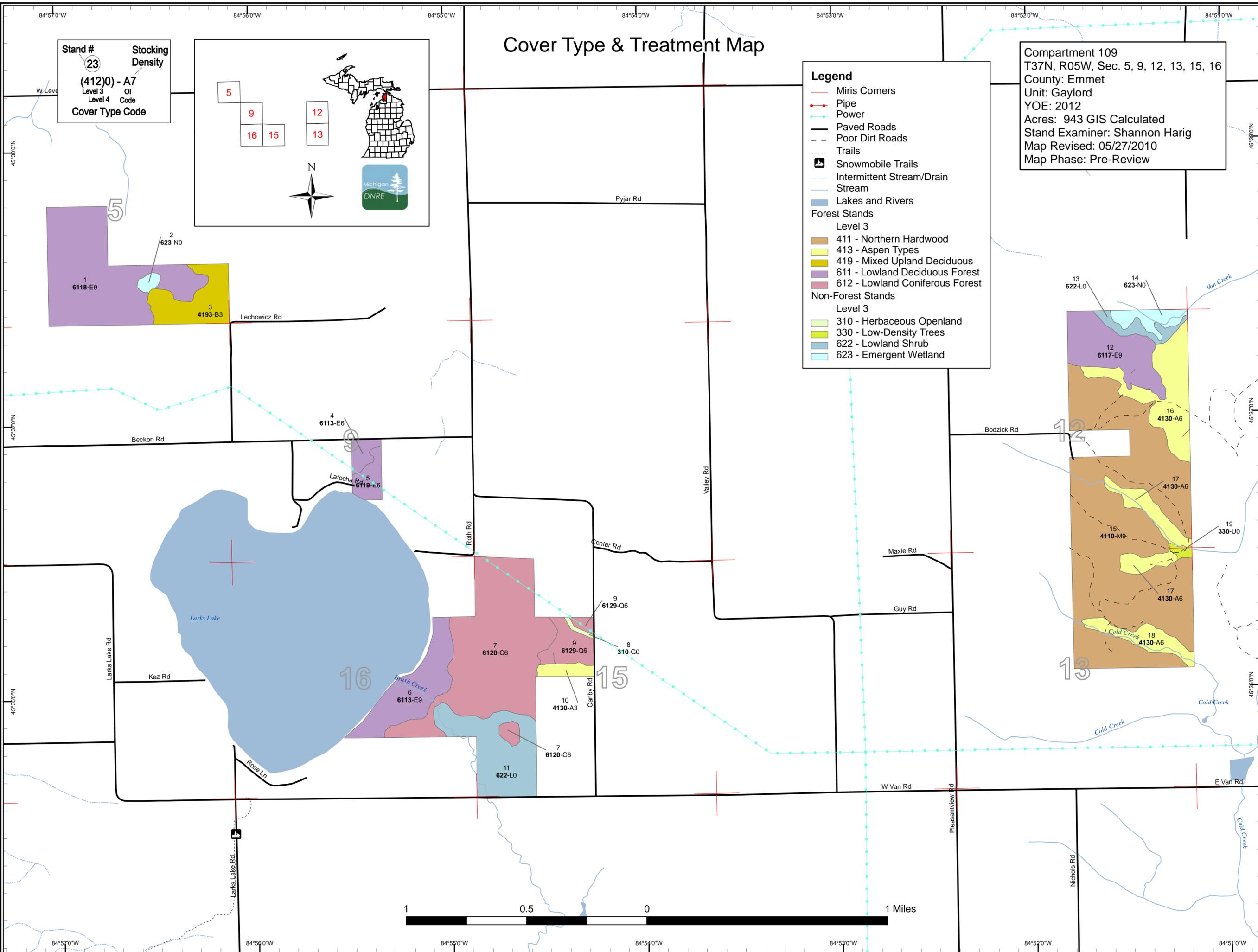
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

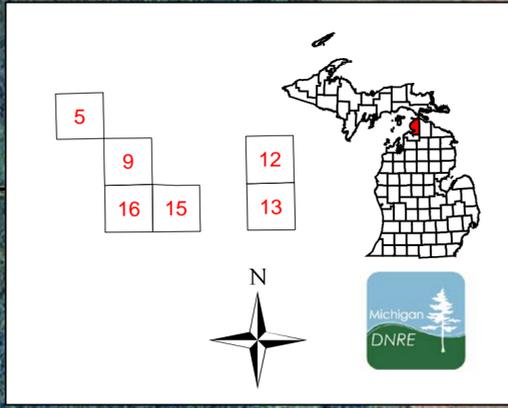
Level 3

- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



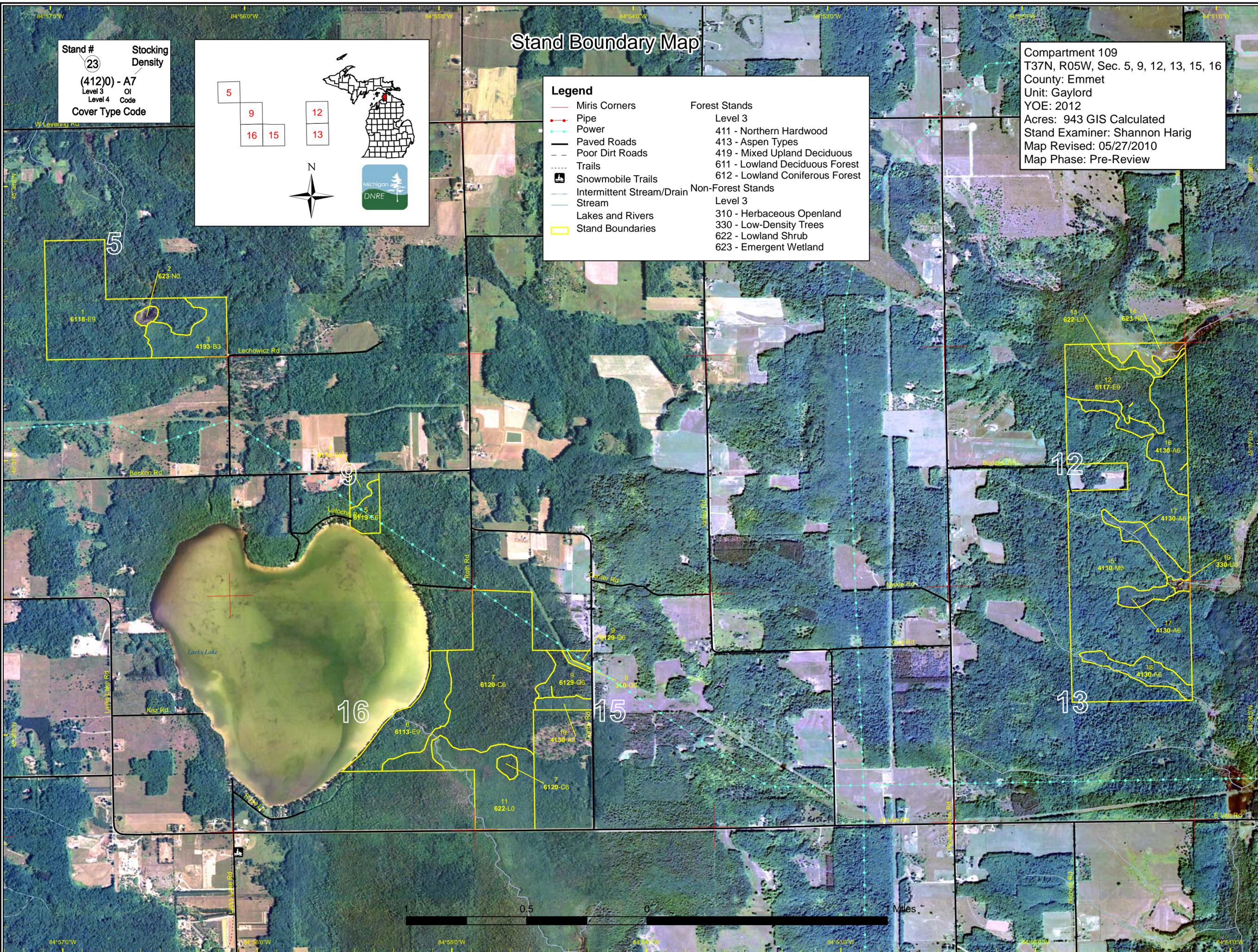
Stand Boundary Map

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



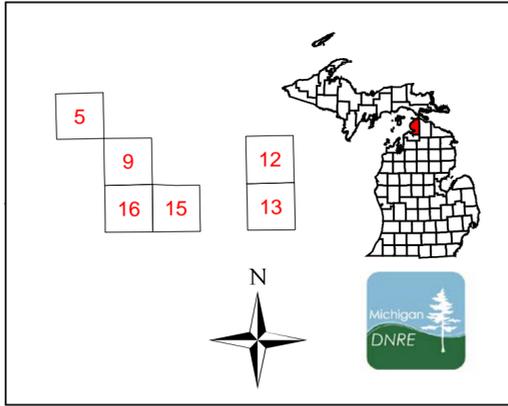
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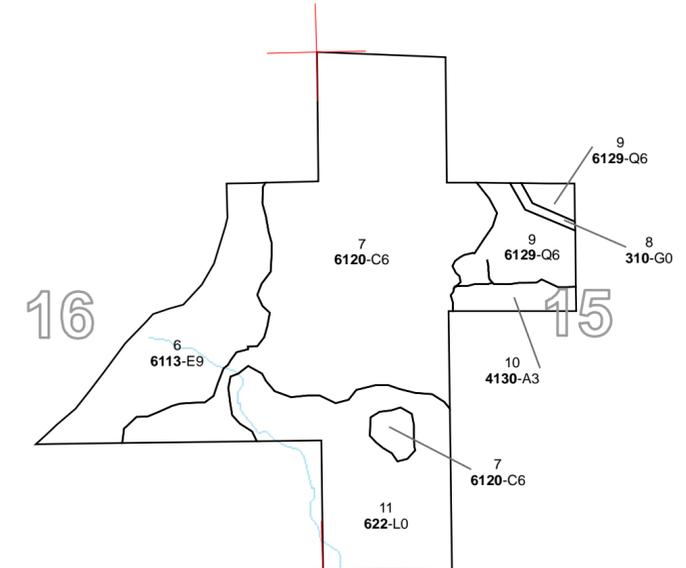
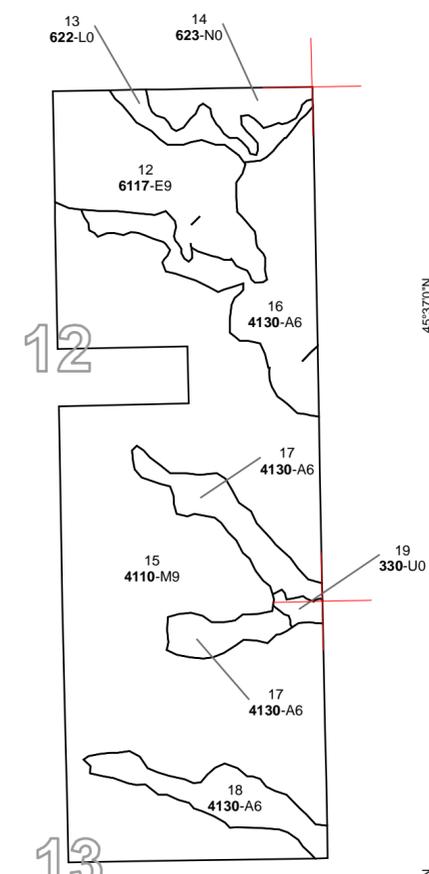
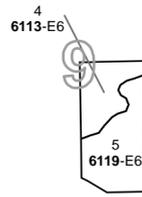
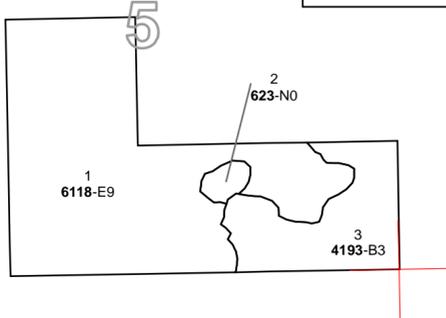


Dedicated & Proposed Special Conservation Area Map

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



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 - Dedicated Special Conservation Areas
 - Cold Water Streams

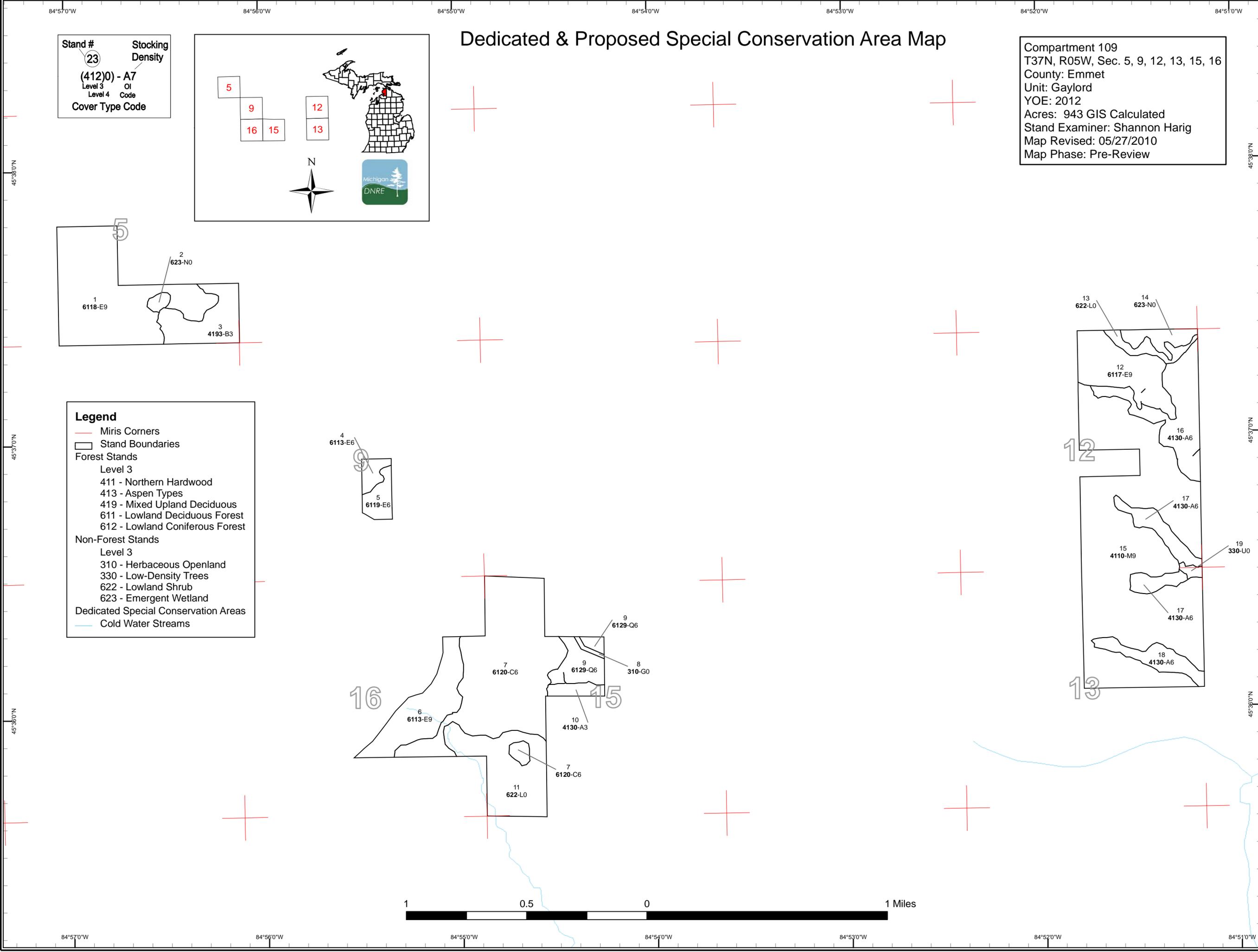
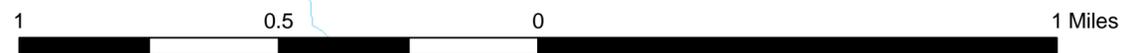


Table 1 – Total Acres by Cover Type and Age Class
 (Level 3 Cover Type)



	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
Aspen Types	0	0	8	98	0	0	0	0	0	0	0	0	0	0	0	106
Emergent Wetland	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Coniferous Forest	0	0	0	0	0	0	0	0	0	178	0	0	0	0	0	178
Lowland Deciduous Forest	0	0	0	0	0	0	0	0	133	101	8	0	0	0	0	241
Lowland Shrub	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72
Mixed Upland Deciduous	0	0	35	0	0	0	0	0	0	0	0	0	0	0	0	35
Northern Hardwood	0	0	0	0	0	0	0	0	289	0	0	0	0	0	0	289
Total	93	0	43	98	0	0	0	0	422	279	8	0	0	0	0	943



Table 2 – Proposed Treatment Summaries

Gaylord Mgt. Unit
Year of Entry 2012

Compartment 109
Total Compartment Acres: 943.5

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
Total	#Error	#Error	#Error	#Error	#Error	#Error	#Error

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



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

Other
Comments:

Next
Steps:

**Total Treatment
Acreage Proposed: 0**

Table 4 -- Treatments Prescribed with a Limiting Factor



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d

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

Other Comment:

Next Steps:

Limiting Factor and No Treatment Reason

Total Treatment Acreage Proposed: 0

Stand	Gaylord Mgt. Unit		5 – Forested Stands			Compartment: 109
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2012
						General Comments:
1	6118 - Lowland Deciduous with Cedar	High Density Log	121.0	70	81-110	Some blowdown. Aspen is dying.
3	4193 - Birch, Aspen	High Density Sapling	35.4	17		Regen looks good.
4	6113 - Lowland Maple	High Density Pole	7.6	99	81-110	
5	6119 - Mixed Lowland Deciduous Forest	High Density Pole	12.1	78	51-80	
6	6113 - Lowland Maple	High Density Log	51.0	88	111-140	Some heavy windthrow.
7	6120 - Lowland Cedar	High Density Pole	156.5	82	171-200	Windthrow present in most of stand, a little mortality in birch.
9	6129 - Mixed Coniferous Lowland Forest	High Density Pole	21.8	81	81-110	
10	4130 - Aspen	High Density Sapling	8.0	17	1-50	
12	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	49.7	80	81-110	Wet. Stand looks healthy. Very little blowdown. Water flows into this stand from adjacent hardwood stand.
15	4110 - Sugar Maple Association	High Density Log	289.2	71	111-140	Mostly good quality hardwood. Rolling terrain. A lot of streams and seeps throughout this stand. Very limited vehicular access. 1-170 (Good quality) 2-50 (Heavy regen) 3-160 (Good quality) 4-140 (Good) 5- 180 (Good) 6- 80 7-130 (Good, heavy understory) 8-170 (Good) 9-120 (Good) 10- 160 (Good) 11-110 (decent) 12-160 (Good) 13- 130
16	4130 - Aspen	High Density Pole	52.2	28	81-110	
17	4130 - Aspen	High Density Pole	25.9	28	51-80	Nice aspen regen. A lot of beaver activity on east side of stand.
18	4130 - Aspen	High Density Pole	19.6	27		Nice regeneration.





Stand	Cover Type	Acres	Gen Cmts:
2	6233 - Wet Meadow	3.5	
8	310 - Herbaceous Openland	1.7	
11	622 - Lowland Shrub	61.8	
13	622 - Lowland Shrub	10.4	
14	6230 - Cattail	13.4	
19	3301 - Low Density Deciduous Tree	2.7	Recent beaver dam. Some quaking aspen and cedar in flooding.



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.

Inventory Method: IFMAP

Stand	SCA Type	SCA Name	Acres	Comments
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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.

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.