



**Gwinn Forest Management Unit
Compartment Review Presentation
Compartment 222 Entry Year: 2014
Compartment Acreage: 1,089 County: Marquette**

Revision Date: 8/20/12

Stand Examiner: Dean Wilson

Legal Description: T46N-R29W, Sections 2, 11, 12.

RMU (if applicable): Chain Lakes Moraine Management Area

Management Goals: Mixed use.

Soil and Topography: The uplands are primarily loamy sands to sandy loams. The lowlands have organic muck and peat soils. The terrain ranges from level to rolling to slightly hilly.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State lands are adjacent to this compartment to the south and east. Corporate and non-industrial private lands bound the majority of this tract as well as occurring internally. Land use is primarily for forest production and passive recreation.

Unique, Natural Features: No known MNFI concerns. Several white pine stands (W8 and W9) potential for merlin, goshawk, osprey and eagle. Potential for rare plants of dry northern forest and dry mesic northern forest.

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations: Special conservation areas are designated around riparian areas.

Watershed and Fisheries Considerations: Birch Lake, some ponds, and several streams in wetland complexes occur in this compartment.

Wildlife Habitat Considerations: Featured species include black bear, gray jay, northern goshawk, pileated woodpecker and red crossbill.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of coarse-textured glacial till sometimes thin to discontinuous over bedrock. The glacial drift thickness varies between 10 and 100 feet. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. This rock could be used as dimension stone. Gravel pits are not located in the area, but potential is good. The abandoned Republic iron mine is located three miles to the west. This compartment has never been leased for metallic exploration, but there is current leasing in the general area. There is no economic oil and gas production in the UP.

Vehicle Access: The compartment is well accessible with roads; however, they are gated by the private landowners surrounding the compartment. The State does not have management easements on these roads.

Survey Needs: None.

Recreational Facilities and Opportunities: There are no developed recreational facilities in this compartment.

Fire Protection: Fire risk is moderate for this tract.

Additional Compartment Information:

- **The following reports from the Inventory are attached:**
 - ◆ **Total Acres by Cover Type and Age Class**
 - ◆ **Proposed Treatment Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
 - ◆ **Stand Details (Forested and Nonforested)**
 - ◆ **Dedicated and Proposed Special Conservation Areas**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand boundaries, cover types, and numbers**
 - ◆ **Proposed treatments**
 - ◆ **Details on the road access system**

Compartment: 222
 T46N R28W Sec. 06, 07
 T46N R29W Sec. 01, 02, 03, 10-12
 County: Marquette
 Unit: Gwinn
 YOY: 2014
 Acres: 1,089 GIS Calculated
 Examiner: Dean Wilson
 Map Revised: 08/28/2012
 Map Phase: Pre-Review

Cover Type & Treatment Map

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

Legend

- ✚ Remonumented Section Corners
- ✚ Miris Corners
- ◆ PLSS Corner
- ▬ Highway
- ▬ County Paved Roads
- ▬ Paved Roads
- ▬ County Gravel Roads
- ▬ Gravel Roads
- ▬ Poor Dirt Roads
- ▬ County Poor Dirt Roads
- ▬ Trail (Non-Recreation)
- ▬ Closed Roads
- ▬ Stream
- ▬ Intermittent Stream
- ⊕ Powerline
- ▬ Lakes and Rivers
- ▬ State Forest Land

Forest Stands

Level 3

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

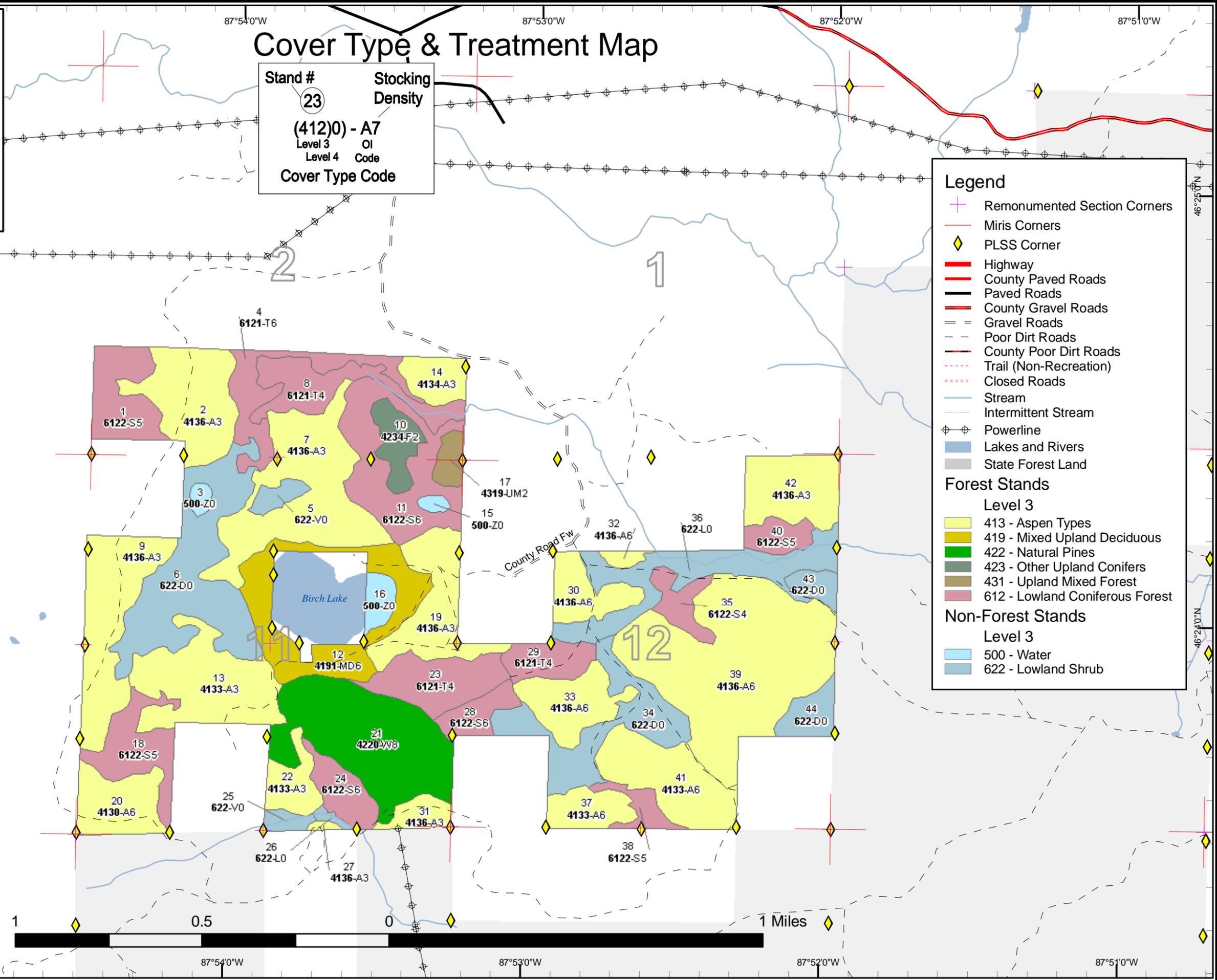
Non-Forest Stands

Level 3

- 500 - Water
- 622 - Lowland Shrub

3	2	1	6
10	11	12	7

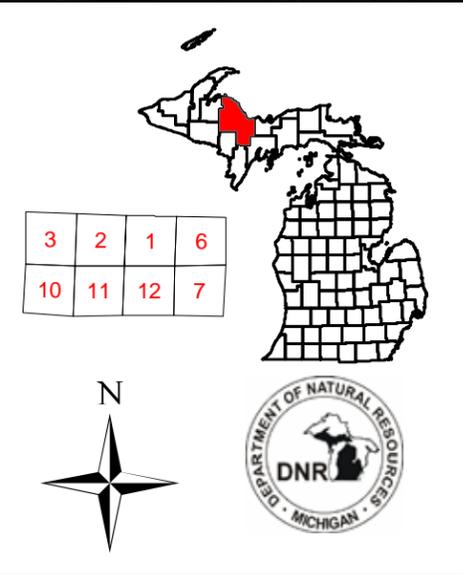
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 Map Revised: 07/11/2012
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Stand Boundary Map

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



Legend

- Miris Corners
- ◆ PLSS Corner
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- - Poor Dirt Roads
- - County Poor Dirt Roads
- · - · Trail (Non-Recreation)
- · · · Closed Roads
- Stream
- - - Intermittent Stream
- ⊕ ⊕ Powerline
- ▭ Stand Boundaries

Forest Stands

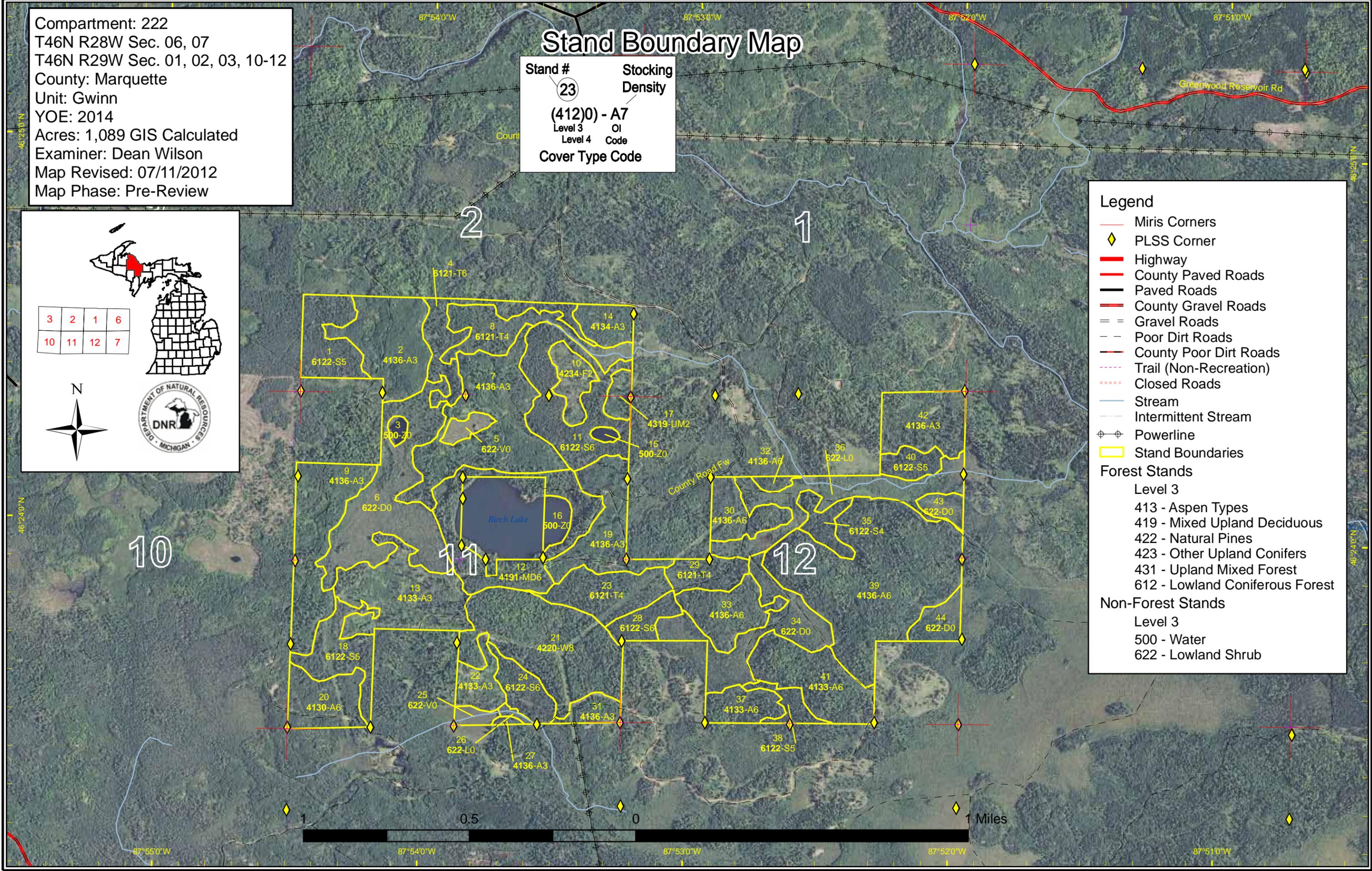
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 Map Revised: 08/28/2012
 Map Phase: Pre-Review

Dedicated & Proposed Special Conservation Area Map

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

Legend

- Miris Corners
- Stand Boundaries
- Proposed Special Conservation Areas
 - SCA - Special Conservation Area
- Dedicated Special Conservation Areas
- Cold Water Streams
- Forest Stands
 - Level 3
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
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 - 431 - Upland Mixed Forest
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 - Non-Forest Stands
 - Level 3
 - 500 - Water
 - 622 - Lowland Shrub

3 2 1 6
 10 11 12 7

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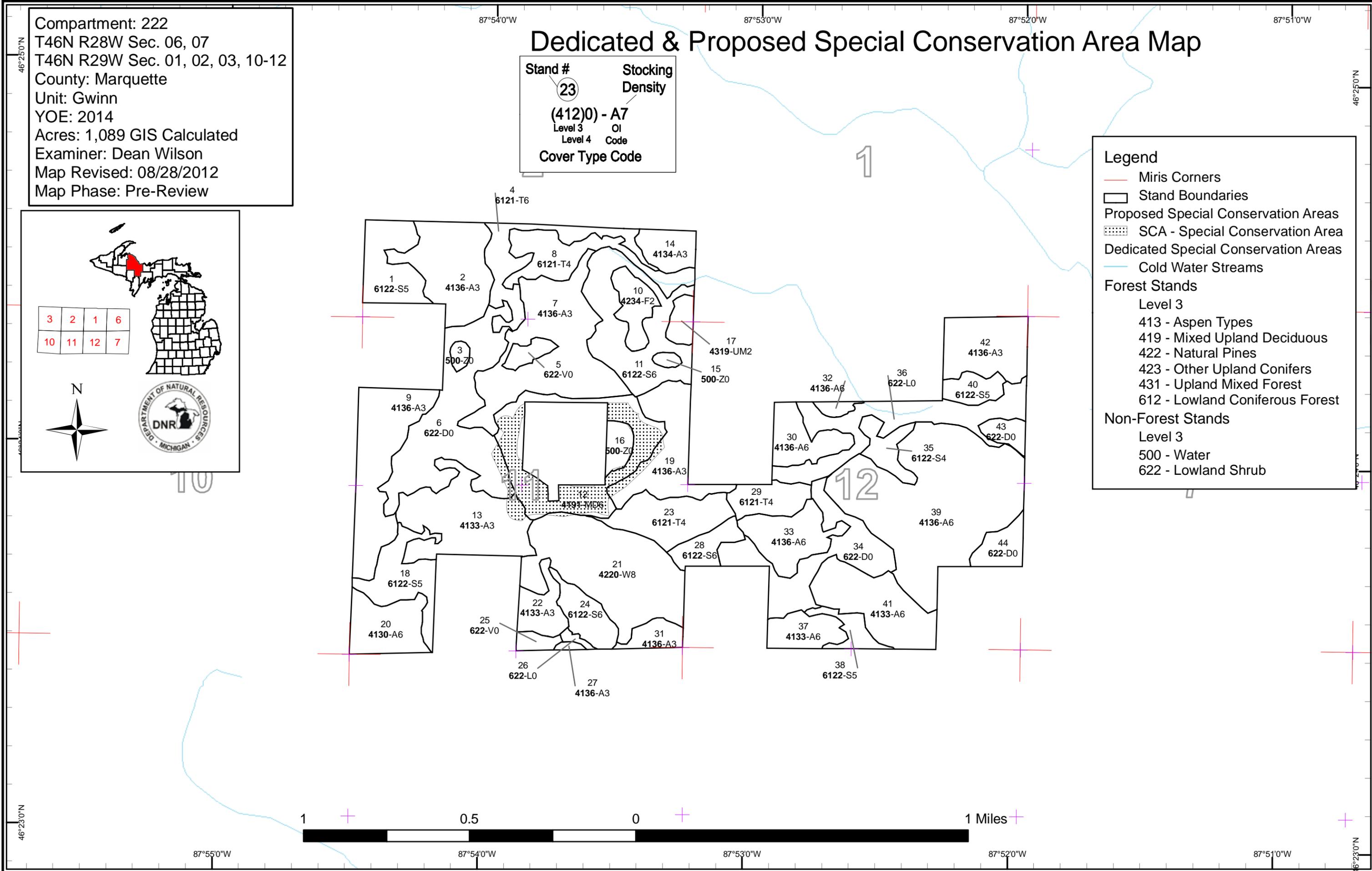
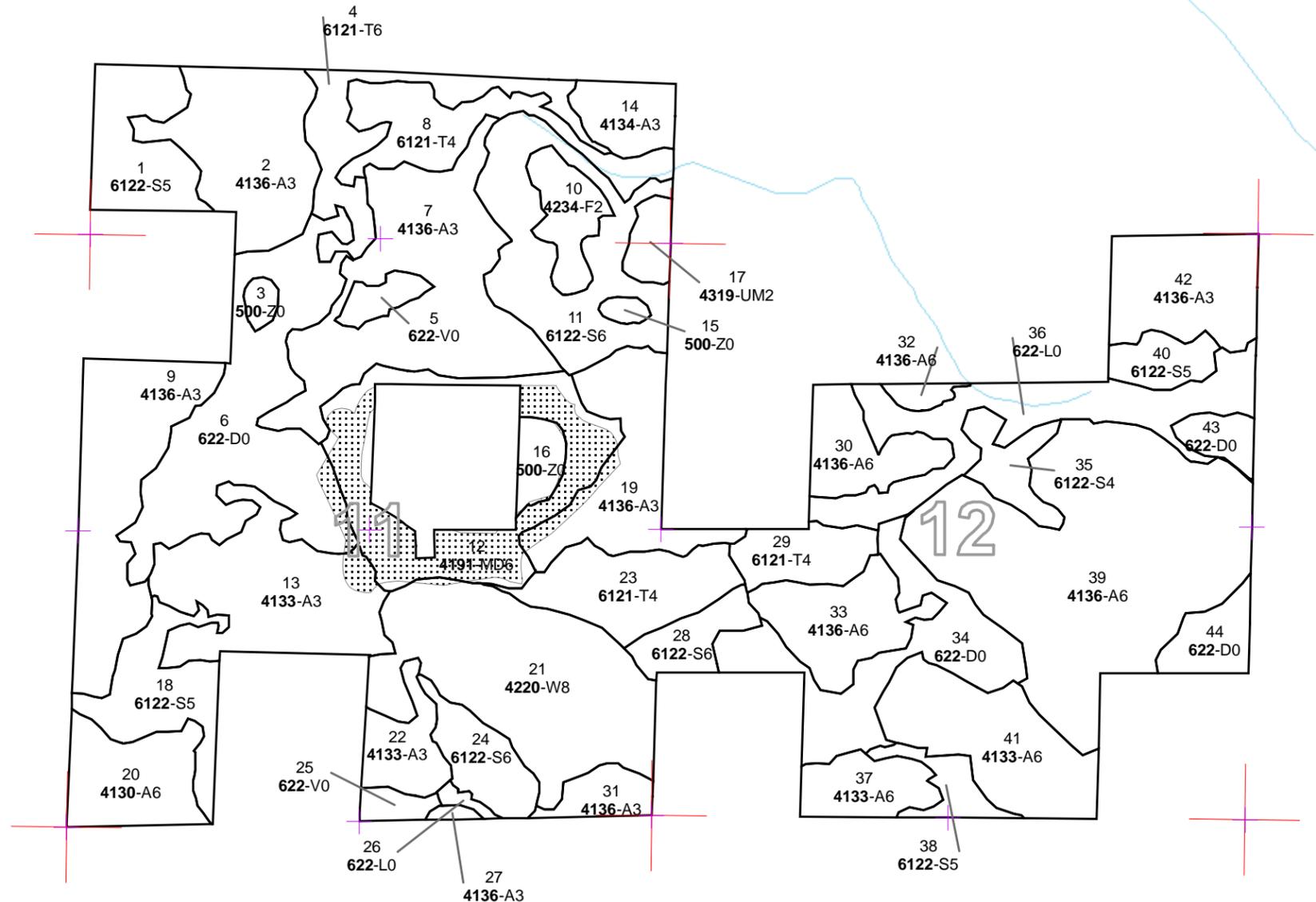


Table 1 – Total Acres by Cover Type and Age Class



	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	62	228	9	236	0	0	0	0	0	0	0	0	0	0	534
Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Shrub	44	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Lowland Spruce/Fir	0	0	0	0	0	35	0	14	96	0	0	0	0	0	145
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	44	0	0	0	0	0	44
Tamarack	0	0	0	0	0	0	0	0	91	0	0	0	0	0	91
Treed Bog	121	0	0	0	0	0	0	0	0	0	0	0	0	0	121
Upland Mixed Forest	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Upland Spruce/Fir	13	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Water	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
White Pine	0	0	0	0	0	0	0	0	0	71	0	0	0	0	71
Total	267	228	9	236	0	35	0	14	230	71	0	0	0	0	1089



Table 2 – Proposed Treatment Summaries

Gwinn Mgt. Unit
Year of Entry 2014

Compartment 222
Total Compartment Acres: 1089

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



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status

#Error

Prescription
Specs:

Other
Comments:

Next
Steps:

Proposed
Start Date: #Error

**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



Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
<u>Prescription Specs:</u>									
<u>Other Comments:</u>									
<u>Next Steps:</u>									
<u>Proposed Start Date:</u> #Error									

Total Treatment Acreage Proposed: 0

S t a n d	Gwinn Mgt. Unit		5 – Forested Stands			Compartment: 222	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2014	
1	6122 - Black Spruce	Medium Density Pole	24.2	87	51-80		
2	4136 - Aspen, Mixed Conifer	High Density Sapling	39.7	15			Harvested in 1997: TS# 10-94.
4	6121 - Tamarack	High Density Pole	23.8	87	81-110		
7	4136 - Aspen, Mixed Conifer	High Density Sapling	66.2	15			Harvested in 1997: TS#13-94.
8	6121 - Tamarack	Low Density Pole	25.9	87	1-50		Wide ranging stocking. Contains beaver meadows and larger tag alder inclusions.
9	4136 - Aspen, Mixed Conifer	High Density Sapling	46.1	15			Harvested in 1997: TS# 10-94.
10	42340 - Upland Spruce/Fir	Medium Density	12.7	8			Harvested in 2004: TS#105-04-02.
11	6122 - Black Spruce	High Density Pole	44.4	87	81-110		
12	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	43.7	87	81-110		SCA = Riparian zone protection around Birch Lake.
13	4133 - Aspen, Mixed Pine	High Density Sapling	48.8	8			Harvested in 2004: TS#134-03-01.
14	4134 - Aspen, Spruce/Fir	High Density Sapling	12.3	17			Harvested in 1995: TS#12-94.
17	4319 - Mixed Upland Forest	Medium Density	6.4	8			Harvested in 2004: TS#105-04-02.
18	6122 - Black Spruce	Medium Density Pole	23.9	51	1-50		
19	4136 - Aspen, Mixed Conifer	High Density Sapling	34.1	15			Harvested in 1997: TS#13-94.
20	4130 - Aspen	High Density Pole	23.2	30	1-50		Harvested in 1982: TS# 3-82.
21	42200 - Natural White Pine	Medium Density Log	70.6	90	81-110		Partially cut in 1976: TS# 23169A. Two storied stand-white pine over mixed forest.
22	4133 - Aspen, Mixed Pine	High Density Sapling	12.9	8			Harvested in 2004: TS# 134-03-01.
23	6121 - Tamarack	Low Density Pole	26.9	87	1-50		



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Gwinn Mgt. Unit

5 – Forested Stands

Compartment: 222
Year of Entry: 2014

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	6122 - Black Spruce	High Density Pole	14.2	79	51-80	
27	4136 - Aspen, Mixed Conifer	High Density Sapling	1.2	25	1-50	Harvested in 1987.
28	6122 - Black Spruce	High Density Pole	10.8	54	81-110	
29	6121 - Tamarack	Low Density Pole	14.0	87	1-50	
30	4136 - Aspen, Mixed Conifer	High Density Pole	17.4	32	1-50	Harvested in 1980: TS# 2-76A.
31	4136 - Aspen, Mixed Conifer	High Density Sapling	8.1	25	1-50	Harvested in 1987: TS# 2-87.
32	4136 - Aspen, Mixed Conifer	High Density Pole	2.9	32	1-50	Harvested in 1980: TS# 2-76A.
33	4136 - Aspen, Mixed Conifer	High Density Pole	24.2	33	1-50	Harvested in 1979: TS# 2-76A.
35	6122 - Black Spruce	Low Density Pole	10.7	87	1-50	
37	4133 - Aspen, Mixed Pine	High Density Pole	14.0	33	1-50	Harvested in 1979: TS# 2-76A.
38	6122 - Black Spruce	Medium Density Pole	7.7	87	1-50	
39	4136 - Aspen, Mixed Conifer	High Density Pole	117.0	33	1-50	Harvested in 1979: TS# 2-76A.
40	6122 - Black Spruce	Medium Density Pole	9.2	87	1-50	
41	4133 - Aspen, Mixed Pine	High Density Pole	37.1	33	1-50	Harvested in 1979: TS#2-76A.
42	4136 - Aspen, Mixed Conifer	High Density Sapling	29.1	17		Harvested in 1995: TS# 12-94.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	50 - Water	2.6	No	Unspecified	
5	6225 - Bog	5.3	No	Unspecified	
6	6224 - Treed Bog	66.4	No	Unspecified	
15	50 - Water	2.0	No	Unspecified	
16	50 - Water	6.9	No	Unspecified	
25	6225 - Bog	4.0	No	Unspecified	
26	6220 - Alder/willow	1.6	No	Unspecified	
34	6224 - Treed Bog	38.0	No	Unspecified	
36	6229 - Mixed lowland shrub	42.0	No	Unspecified	
43	6224 - Treed Bog	6.3	No	Unspecified	
44	6224 - Treed Bog	10.5	No	Unspecified	

**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
multiple - see	Unique Site - SCA	32222_SCA	40.8	RAU added SCA



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.