



**Gwinn Forest Management Unit  
Compartment Review Presentation  
Compartment 30      Entry Year: 2013  
Compartment Acreage: 1, 450      County: Marquette**

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**Revision Date:** 08/18/2011

**Stand Examiner:** Kevin LaBumbard

**Legal Description:** T45N R25W Sections 4,5,6,8,13,15,18

**RMU (if applicable):** Palmer Moraine Management Area

**Management Goals:** To improve the quality and diversity of State forests and wildlife through proper habitat management, while protecting the riparian values of our wetlands and waters.

**Soil and Topography:** Terrain is relatively level with a geology including a lake plain with excessively drained sands, and outwash plain containing moderately well drained loams. Soil associations include Grayling, Rubicon, Baraga, Champion, Michigamme and Munising.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The State ownership is fragmented in this compartment with Cleveland Cliffs, Inc. and Marquette County the major landowners surrounding State land. In addition, there are several private holdings abutting State land.

**Unique, Natural Features:** Potential for goshawk, osprey, eagle, and great blue heron rookery. Potential for Kirtland's warbler. Potential for wood turtle in East and Middle Branch Escanaba River. Potential for Loon in Swanzy Lake. Potential for frigga fritillary, freija fritillary, and red-disked alpine in bogs. Potential for moose and wolf. Potential for auricled tway-blade, western dock, veiny meadow-rue, and linear-leaved gentian along riparian areas. Potential for Farwell's water-milfoil and alternate-leaved water-milfoil in shallow lakes. Potential for purple clematis in dry-mesic pine stands. Potential for fir clubmoss in moist sandy depressions and shorelines.

**Archeological, Historical, and Cultural Features:** None identified.

**Special Management Designations or Considerations:**

**Watershed and Fisheries Considerations:** East Branch Escanaba River and its tributaries.

**Wildlife Habitat Considerations:** Identify and implement strategies that increase mesic conifer such as white pine. Special Conservation Areas along the Escanaba River and its tributaries, maintain conifer to provide snow intercept, cover, mature forest structure and protection for wildlife corridors and protect riparian areas. Diversity in habitat types offers a variety of hunting and wildlife viewing opportunities.

**Mineral Resource and Development Concerns and/or Restrictions:**

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium, medium-textured glacial till and thin to discontinuous glacial till over bedrock. The glacial drift thickness varies between 50 and 200 feet. The Cambrian Munising Formation and Precambrian Oakbluff and Bijiki Iron Formations and Archean Granite/Gneiss subcrop below the glacial drift. The iron formations were previously mined. Gravel pits are located in this area and there should be potential especially the west part of the compartment.

Abandoned iron mines are located in the southwest corner of this compartment. Sections 6 and 18 were previously leased for metallic exploration. There is no economic oil and gas production in the UP.

**Vehicle Access:** Excellent from numerous roads and two-tracks, as well as M-35 and Co. Road 553.

**Survey Needs:** None

**Recreational Facilities and Opportunities:** Good hunting for deer and grouse. Fair to good trout fishing in the Escanaba River.

**Fire Protection:** This compartment is at a medium to high risk for wildfire due to the jack pine stands near the Escanaba River and Swanzy Lake area.

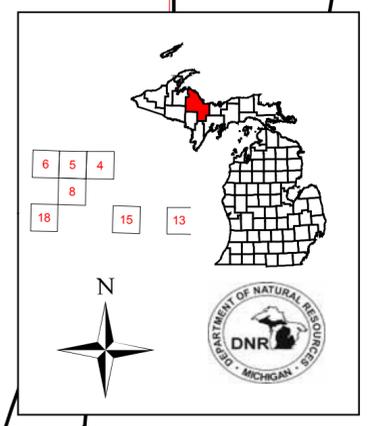
**Additional Compartment Information:**

- **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**

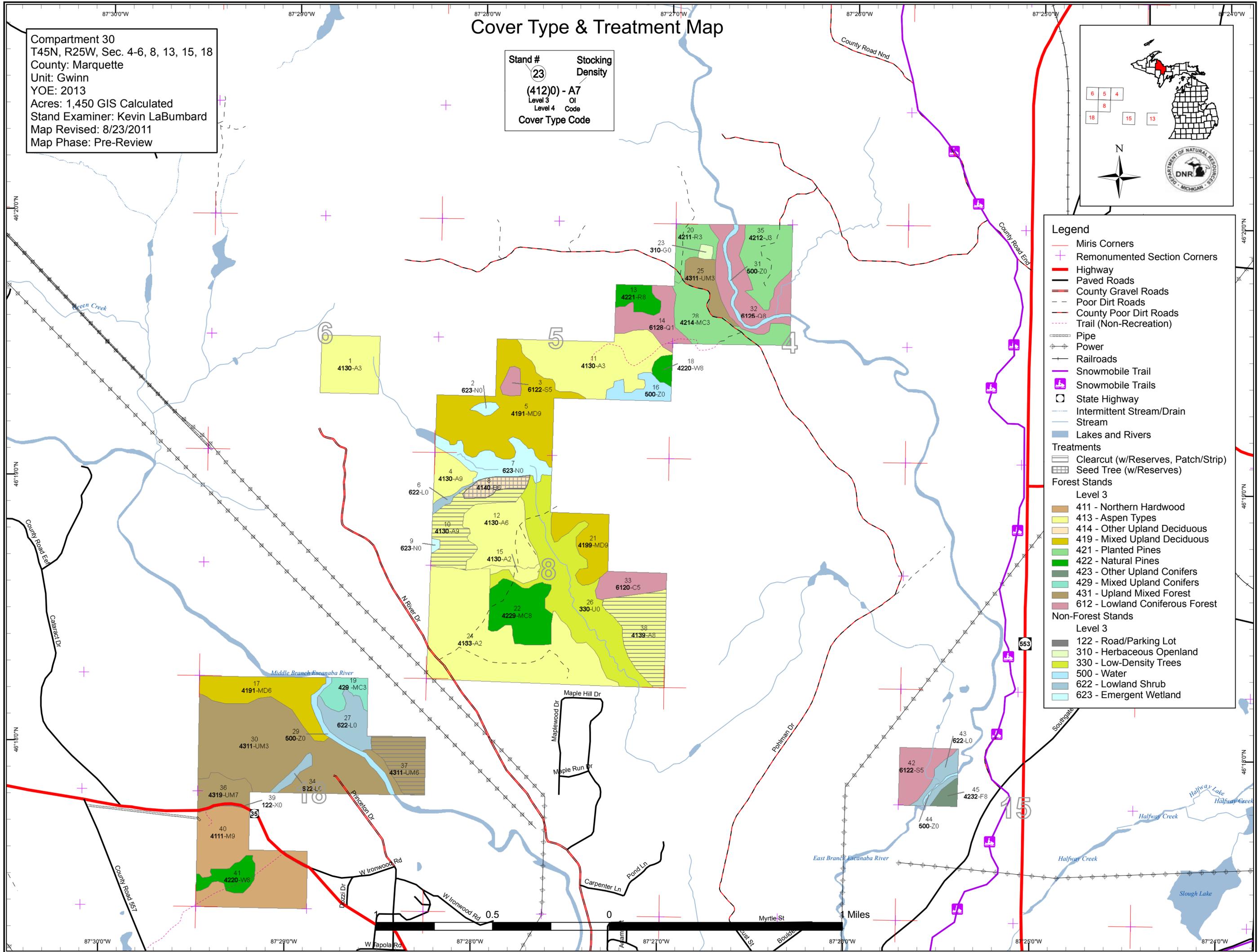
# Cover Type & Treatment Map

Compartment 30  
 T45N, R25W, Sec. 4-6, 8, 13, 15, 18  
 County: Marquette  
 Unit: Gwinn  
 YOE: 2013  
 Acres: 1,450 GIS Calculated  
 Stand Examiner: Kevin LaBumbard  
 Map Revised: 8/23/2011  
 Map Phase: Pre-Review

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



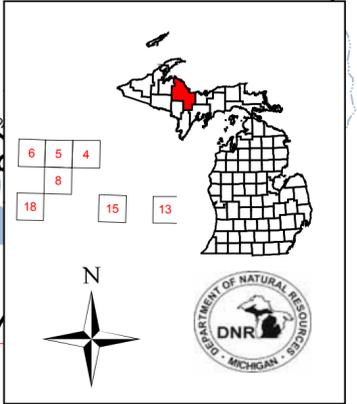
- Legend**
- Miris Corners
  - + Remonumented Section Corners
  - Highway
  - Paved Roads
  - County Gravel Roads
  - Poor Dirt Roads
  - County Poor Dirt Roads
  - Trail (Non-Recreation)
  - Pipe
  - Power
  - Railroads
  - Snowmobile Trail
  - Snowmobile Trails
  - State Highway
  - Intermittent Stream/Drain
  - Stream
  - Lakes and Rivers
- Treatments**
- ▨ Clearcut (w/Reserves, Patch/Strip)
  - ▨ Seed Tree (w/Reserves)
- Forest Stands**
- Level 3**
- 411 - Northern Hardwood
  - 413 - Aspen Types
  - 414 - Other Upland Deciduous
  - 419 - Mixed Upland Deciduous
  - 421 - Planted Pines
  - 422 - Natural Pines
  - 423 - Other Upland Conifers
  - 429 - Mixed Upland Conifers
  - 431 - Upland Mixed Forest
  - 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- Level 3**
- 122 - Road/Parking Lot
  - 310 - Herbaceous Openland
  - 330 - Low-Density Trees
  - 500 - Water
  - 622 - Lowland Shrub
  - 623 - Emergent Wetland



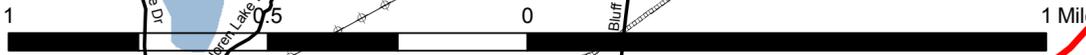
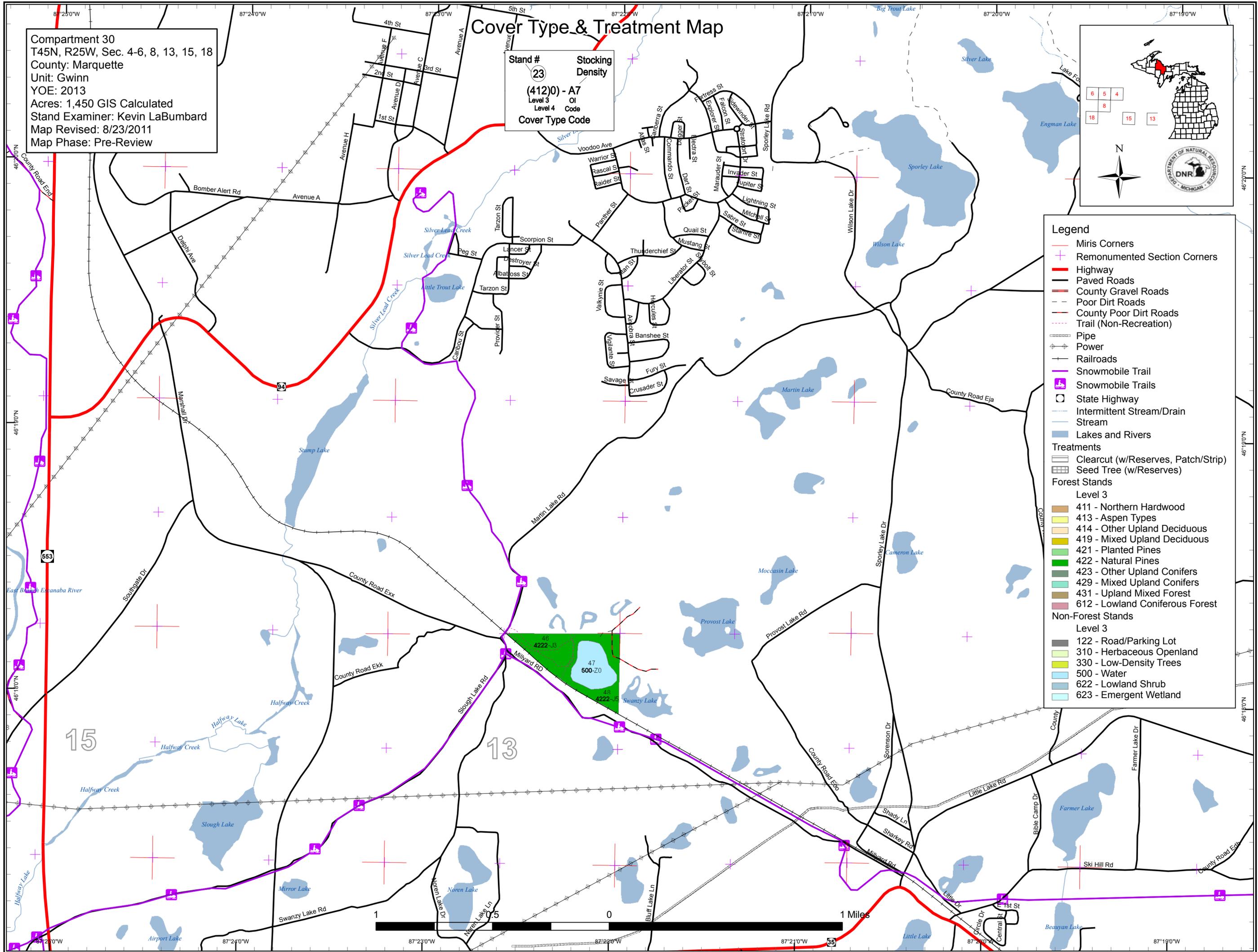
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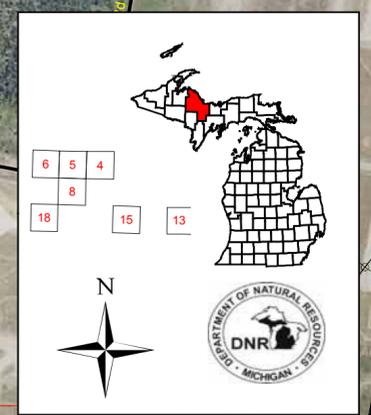
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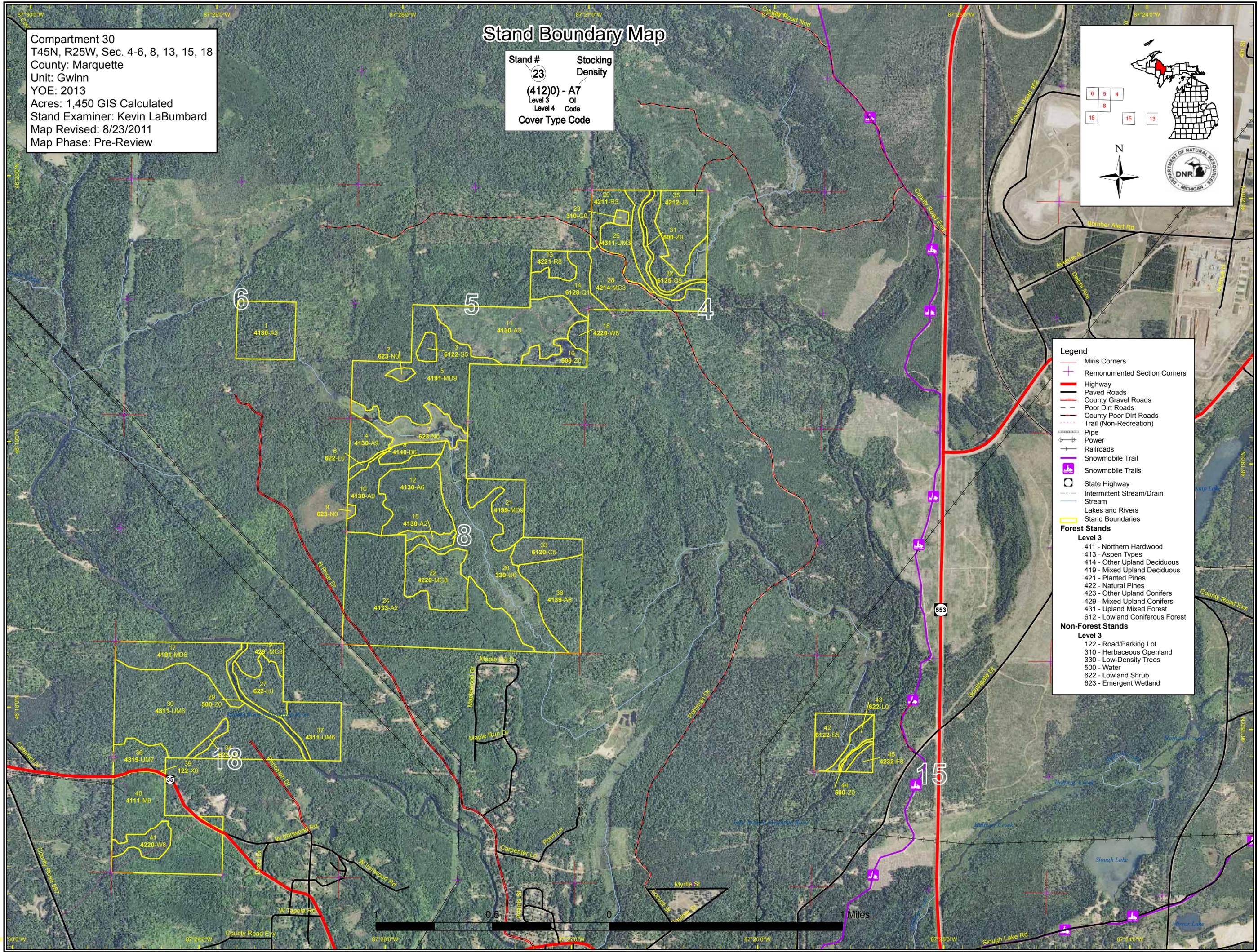
# Stand Boundary Map

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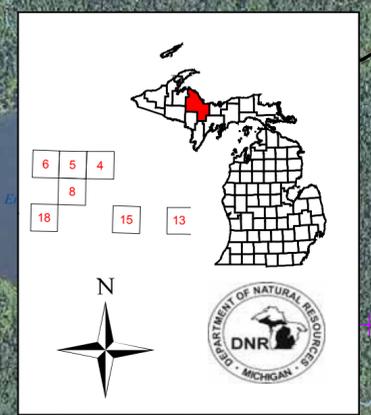
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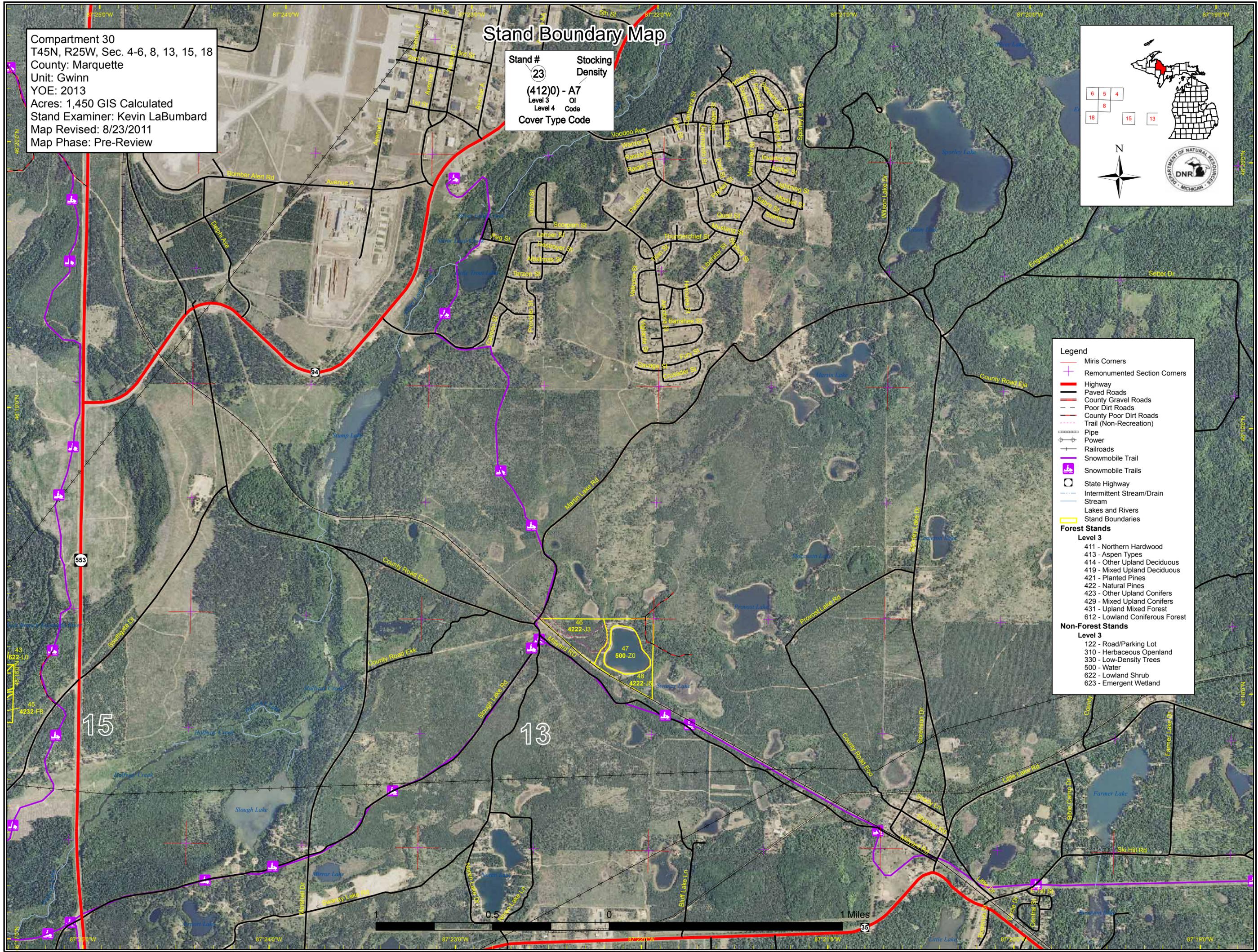
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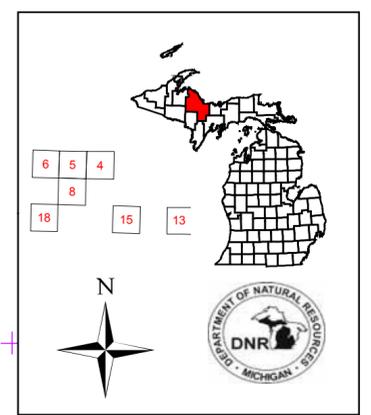
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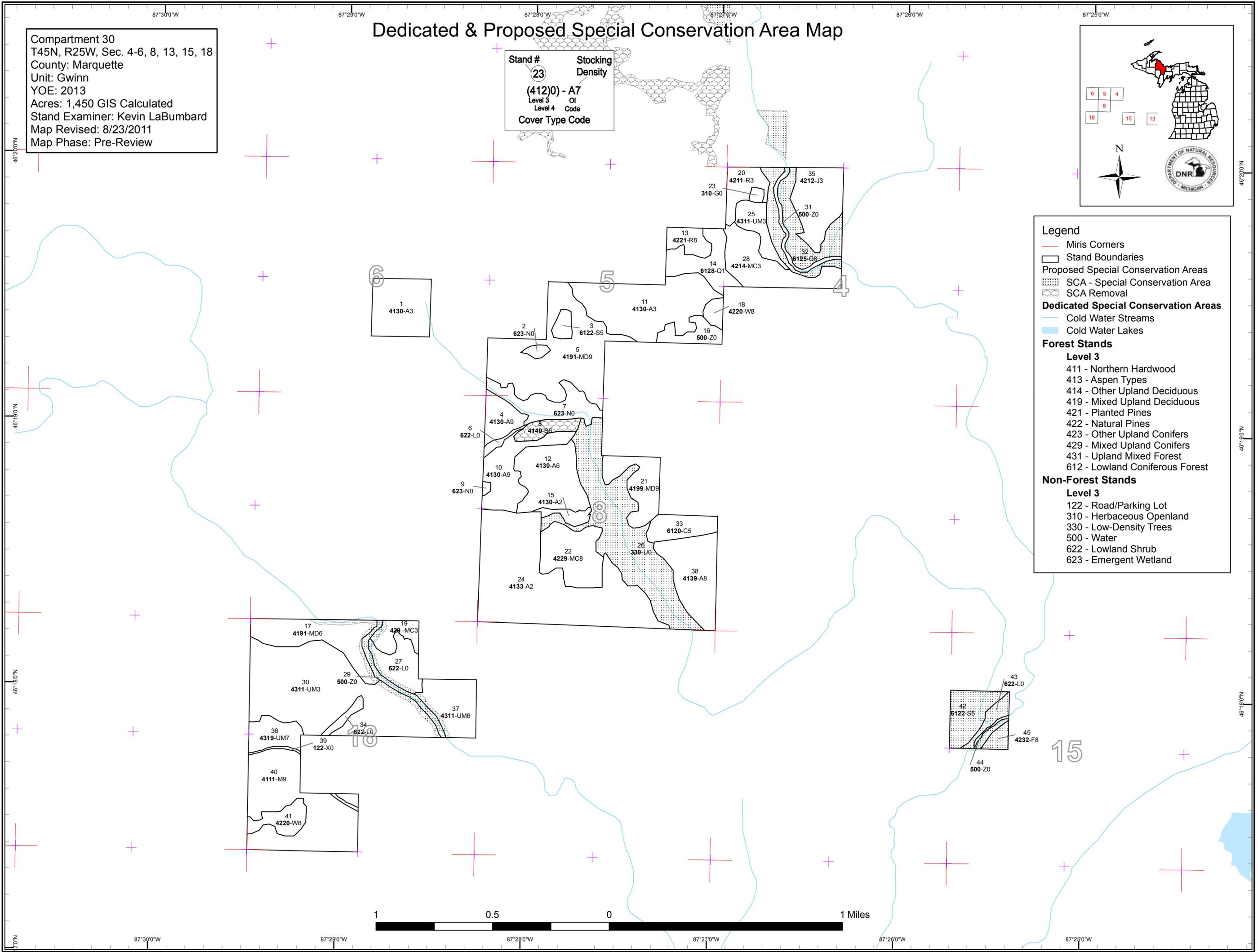
# Dedicated & Proposed Special Conservation Area Map

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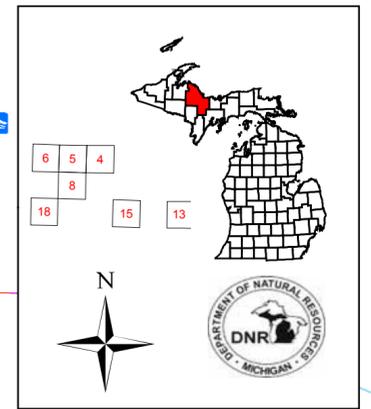
- Legend**
- Miris Corners
  - Stand Boundaries
  - Proposed Special Conservation Areas
  - ▨ SCA - Special Conservation Area
  - ▤ SCA Removal
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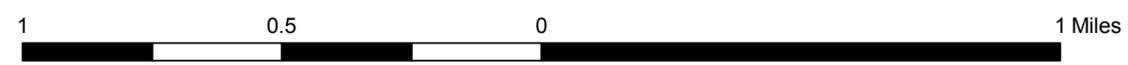
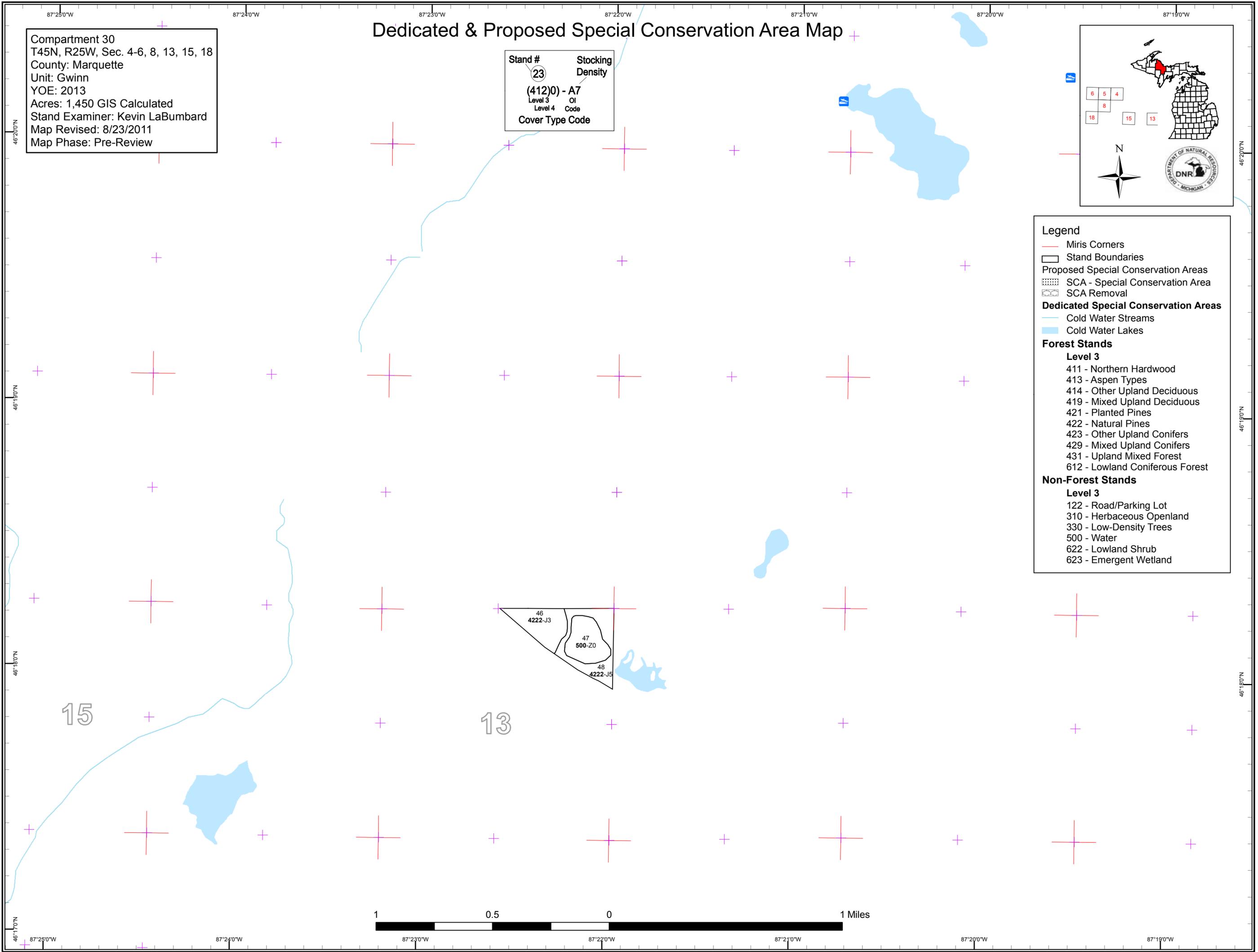
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87°25'0"W      87°24'0"W      87°23'0"W      87°22'0"W      87°21'0"W      87°20'0"W      87°19'0"W

46°20'0"N  
46°18'0"N  
46°16'0"N  
46°14'0"N  
46°12'0"N  
46°10'0"N

15      13

46      47      48  
 4222-J3      500-Z0      4222-J5

1      0.5      0      1 Miles

87°25'0"W      87°24'0"W      87°23'0"W      87°22'0"W      87°21'0"W      87°20'0"W      87°19'0"W



	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	0	82	184	0	47	0	0	50	0	46	0	0	0	0	0	409
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	18
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Jack Pine	0	0	38	20	0	0	21	0	0	0	0	0	0	0	0	79
Low-Density Trees	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102
Lowland Conifers	0	0	0	0	0	0	0	44	26	0	0	0	0	0	0	70
Lowland Shrub	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	29
Marsh	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	140	0	29	0	0	0	0	170
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	39	0	0	0	0	0	39
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	86	0	0	0	0	86
Paper Birch	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	11
Planted Mixed Pines	0	0	0	41	0	0	0	0	0	0	0	0	0	0	0	41
Red Pine	0	0	0	17	0	0	0	0	0	0	0	0	12	0	0	29
Upland Conifers	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	13
Upland Mixed Forest	0	0	139	16	0	0	0	0	32	0	0	0	18	0	0	204
Upland Spruce/Fir	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	20
<b>Total</b>	<b>228</b>	<b>82</b>	<b>374</b>	<b>93</b>	<b>47</b>	<b>0</b>	<b>32</b>	<b>94</b>	<b>233</b>	<b>84</b>	<b>115</b>	<b>0</b>	<b>68</b>	<b>0</b>	<b>0</b>	<b>1450</b>



## Table 2 – Proposed Treatment Summaries

**Gwinn Mgt. Unit**  
**Year of Entry 2013**

**Compartment 030**  
**Total Compartment Acres: 1450**

### Acres by Treatment Type

Commercial Harvest - 117	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

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
<b>Aspen</b>	79	0	0	0	0	0	79
<b>Paper Birch</b>	0	0	11	0	0	0	11
<b>Upland Mixed Forest</b>	27	0	0	0	0	0	27
<b>Total</b>	107	0	11	0	0	0	117



Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
8	32030008-Cut	10.5	4140 - Other Upland Deciduous	High Density Pole	56	Harvest	Seed Tree	4193 - Birch, Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Seed tree silviculture to attempt regeneration of birch. Harvest will be limited to snow free months to provide soil scarification. Aspen will be an acceptable species alternative.</p> <p><u>Specs:</u></p> <p><u>Other</u> Pretty paper birch and bigtooth aspen stand on a hillside sloping down toward the creek. Former SCA nomination but recommend removal.</p> <p><u>Comments:</u></p> <p><u>Next</u> Monitor regeneration per Work Instructions.</p> <p><u>Steps:</u></p>									
10	32030010-Cut	33.9	4130 - Aspen	High Density Log	65	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut all aspen, fir, and mixed hardwoods retaining scattered birch seed trees. Retain any white pine and red oak if present. Any legacy trees found in the stand, regardless of species, will also be retained.</p> <p><u>Specs:</u></p> <p><u>Other</u> A6B4F4M4. Aspen is mostly bigtooth.</p> <p><u>Comments:</u></p> <p><u>Next</u> Monitor regeneration per Work Instructions.</p> <p><u>Steps:</u></p>									
37	32030037-Cut	27.4	4311 - Pine, Aspen Mix	High Density Pole	75	Harvest	Clearcut with Reserves	4133 - Aspen, Mixed Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut jack pine, aspen, and red maple leaving white pine and any red pine or red oak if found. Any legacy trees found in the stand, regardless of species, will also be retained.</p> <p><u>Specs:</u></p> <p><u>Other</u> A mix of jack pine and bigtooth aspen with red maple and large white pine. Heavier to aspen south. Fairly steep as the stand drops toward the river. East line has been surveyed.</p> <p><u>Comments:</u></p> <p><u>Next</u> Monitor regeneration per Work Instructions.</p> <p><u>Steps:</u></p>									
38	32030038-Cut	45.5	4139 - Aspen, Mixed Deciduous	Medium Density Log	85	Harvest	Clearcut with Reserves	4133 - Aspen, Mixed Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut all aspen, soft maple, and merchantable fir, while retaining the white pine and sugar maple component and any red pine and red oak if present. Any legacy trees found in the stand, regardless of species, will also be retained.</p> <p><u>Specs:</u></p> <p><u>Other</u> Large 14-18" aspen with soft maple and sugar maple poletimber with scattered large white pine. Heavy fir understory. Access will be through private land.</p> <p><u>Comments:</u></p> <p><u>Next</u> Monitor regeneration per Work Instructions.</p> <p><u>Steps:</u></p>									
<b>Total Treatment Acreage Proposed:</b>		<b>117.3</b>							

S  
t  
a  
n  
d

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Error

Prescription  
Specs:

Other  
Comment:

Next  
Steps:

Limiting Factor and No  
Treatment Reason

**Total Treatment**  
**Acreage Proposed: 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
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Prescription  
Specs:

Other  
Comments:

Next  
Steps:

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**Total Treatment  
Acreage Proposed: 0**

S  
t  
a  
n  
d

## Gwinn Mgt. Unit

## 5 – Forested Stands

Compartment: 030

Year of Entry: 2013



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	High Density Sapling	40.0	12		20-30 ba of 12-28" white pine over 1-2" aspen saplings and red maple stump sprouts. Very rocky and rolling with swales between the rock ridges.
3	6122 - Black Spruce	Medium Density Pole	5.5	76		Remote black spruce pole stand with jack pine on the rock edges, Very poor access.
4	4130 - Aspen	High Density Log	16.3	65		A6B4F4M4. Aspen is mostly bigtooth. Rocky, hilly, stand will be factor limited because of poor access.
5	4191 - Mixed Upland Deciduous with Conifer	High Density Log	96.7	76		A5M4B4F4 over F2/F3 growing on rock ledges with wet swales between. Access is prohibited by numerous rock ledges and bluffs.
8	4140 - Other Upland Deciduous	High Density Pole	10.5	56		Pretty paper birch and bigtooth aspen stand on a hillside sloping down toward the creek. Former SCA nomination.
10	4130 - Aspen	High Density Log	33.9	65		A6B4F4M4. Aspen is mostly bigtooth.
11	4130 - Aspen	High Density Sapling	75.9	3		Cut by Minerick under contract #10-03-01. Fully stocked 1" aspen regen with numerous soft maple stump sprouts 6-15' tall.
12	4130 - Aspen	High Density Pole	47.1	37		3-4 stick aspen poles with a few balsam fir. Mostly bigtooth. Approximately 60 ba of aspen.
13	42210 - Natural Red Pine	Medium Density Log	12.0	116	111-140	Steep rocky knob of red and white pine sawtimber with black spruce over fir. Inoperable.
14	6128 - Lowland Coniferous, Mixed Deciduous	Low Density Sapling	26.0	77		E4Q4E1. Low wet black ash swale with cedar and black spruce. All over tag alder.
15	4130 - Aspen	Medium Density	6.3	4		Stand treated by LaFleur fall 2006 under permit # 011-03-01. 5-10' 1" aspen saplings with fir.
17	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	43.7	79	51-80	Former SCA old growth nomination. Poor quality even-aged hardwoods of aspen, red maple and balsam fir. Rocky ledges with steep outcrops. Occasional red oak.
18	42200 - Natural White Pine	Medium Density Log	5.6	116		Large white pine with scattered red pine, white birch, hemlock, white spruce. Cut by Minerick under contract #10-03-01. F
19	429 - Mixed Upland Conifers	High Density Sapling	12.9	13		Cut in 1997 under permit # 009-93-01, the stand consists of 1-2" aspen and fir with scattered large white pine sawtimber. Dense aspen and fir seedlings and saplings. North/south ridge dropping to tag alder.
20	42110 - Planted Red Pine	High Density Sapling	16.6	21		3-6" red pine with fir, white pine, and jack pine saplings and small poles. The poles are small and short, only 1 stick. Fairly heavy sweetfern ground cover.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	4199 - Other Mixed Upland Deciduous	High Density Log	29.1	98	51-80	A highly variable stand, difficult access and operability. Rocky steep knobs dropping to lowland conifers and black ash swales.
22	42290 - Natural Mixed Pine	Medium Density Log	38.7	86	111-140	Stand treated by LaFleur fall 2006 under permit # 011-03-01. Stand is comprised of red and white pine with a scattering of jack pine and aspen. High ba's in places, low ba in others.
24	4133 - Aspen, Mixed Pine	Medium Density	143.8	16		A3W7R7. Treated under contract # 08-93-01. Two inch aspen saplings with scattered large red and white pine.
25	4311 - Pine, Aspen Mix	High Density Sapling	15.7	23		A mix of aspen and conifer saplings.
28	42141 - Planted Mixed Pine, Mixed Deciduous	High Density Sapling	41.1	21		2-4" jack pine and aspen with scattered red and white pine sawtimber trees.
30	4311 - Pine, Aspen Mix	High Density Sapling	139.4	17		Stand treated under contract # 10-93-01. Covertypes immediately after treatment was W7F2, current stand is an A3F3W7, with aspen and fir the dominant species. Numerous scattered mine pits and small scattered 1/10 acre openings among the dense fir.
32	6125 - Lowland Black Spruce, Jack Pine	Medium Density Log	43.9	60		J5F4M4 A mix of primarily jack pine and black spruce with fir, wp, rp, cherry, aspen, and white birch along the bank of the Escanaba River. Former SCA potential old growth, recommend keeping it an SCA for the riparian benefits.
33	6120 - Lowland Cedar	Medium Density Pole	18.3	114		Medium stocked cedar with associated swamp conifers.
35	42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	38.0	14		Well stocked 3" jack pine and aspen saplings 12-20' tall.
36	4319 - Mixed Upland Forest	Low Density Log	17.7	116	1-50	W7F4M4F3A1. Stand treated under contract # 010-93-01 removing aspen, fir, soft maple and retaining the red oak, white pine, hemlock. Numerous red oak seedlings 6-12" tall, as well as soft maple stump sprouts. Scattered red pine sawtimber, and a pocket of hemlock on the southeast side. Rolling, rocky terrain.
37	4311 - Pine, Aspen Mix	High Density Pole	31.6	75		A mix of jack pine and bigtooth aspen with red maple and large white pine. Heavier to aspen south. Fairly steep as the stand drops toward the river. East line has been surveyed.
38	4139 - Aspen, Mixed Deciduous	Medium Density Log	45.5	85	51-80	Large 14-18" aspen with soft maple and sugar maple poletimber with scattered large white pine. Heavy fir understory. Access will be through private land.
40	4111 - S.Maple, Hard Mast Association	High Density Log	86.2	95	81-110	Even-aged hard maple and red oak with scattered huge white pine and hemlock. Scattered cherry and basswood with a few soft maple. Understory is thick fir saplings. Numerous old mine test pits. Terrain is rocky and rolling. The "top" is a more traditional M6 stand which turns to heavy red oak on the highest ground.

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Gwinn Mgt. Unit

## 5 – Forested Stands

Compartment: 030

Year of Entry: 2013



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
41	42200 - Natural White Pine	Medium Density Log	14.6	116	81-110	Most of the stand was an old opening, probably an old homestead, filling in with weeviled white pine, spruce, fir and aspen. Old dump area with lots of old cans and bottles.
42	6122 - Black Spruce	Medium Density Pole	23.5	78		Former SCA. Black spruce and tamarack swamp with upland ridges of aspen and jack pine.
45	42320 - Upland Spruce	Medium Density Log	5.5	78		Large black spruce, fir, and jack pine along the Escanaba River. Former SCA nomination.
46	42220 - Natural Jack Pine	High Density Sapling	20.0	25		Area burned during the 1986 Swanzey Lake fire...fully regenerated. Severe erosion from illegal ORV use.
48	42221 - Natural Jack Pine, Mixed Deciduous	Medium Density Pole	21.2	58		Mostly jack pine with a clone of aspen poles. Severe erosion in this stand from illegal ORV use. Approximately 20 ba aspen and 50 ba jack pine.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	6239 - Mixed Emergent Wetland	3.0	No	Unspecified	
6	6220 - Alder/willow	2.9	No	Unspecified	Narrow drain of tag alder and willow. Contains a small area of black spruce in the west of the stand.
7	6239 - Mixed Emergent Wetland	28.5	No	Unspecified	Old beaver flooding filling in with grass, willow. New beaver activity is reflooding this area.
9	6239 - Mixed Emergent Wetland	1.2	No	Unspecified	
16	50 - Water	13.1	No	Unspecified	Beaver flooding.
23	3105 - Mixed Upland Herbaceous	2.2	No	Unspecified	Wildlife created opening. Mostly sweetfern
26	3301 - Low Density Deciduous Tree	102.0	No	Unspecified	Stand varies from dead beaver killed black ash to tag alder to poorly stocked 2-6" black ash with a few cedar.
27	6220 - Alder/willow	21.6	No	Unspecified	
29	50 - Water	9.3	No	Unspecified	Middle Branch of Escanaba River
31	50 - Water	6.8	No	Unspecified	East Branch Escanaba River
34	6220 - Alder/willow	4.7	No	Unspecified	Varies from tag alder to tree lined drainage.
39	122 - Road/Parking Lot	2.4	No	Unspecified	Highway M 35
43	6220 - Alder/willow	10.1	No	Unspecified	SCA recommendation.
44	50 - Water	1.2	No	Unspecified	East Branch Escanaba River
47	50 - Water	18.6	No	Unspecified	Swanzy Lake



## 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	32030_SCA	28.3	SCA Riparian and wildlife travel corridor.
8	SCA Removal	32030008	10.5	Former SCA. Pretty paper birch and bigtooth aspen stand on a hillside sloping down toward the creek. Former SCA nomination but recommend removal.
32	Unique Site - SCA	32030032	43.9	J5F4M4 A mix of primarily jack pine and black spruce with fir, wp, rp, cherry, aspen, and white birch along the bank of the Escanaba River. Former SCA potential old growth, recommend keeping it an SCA for the riparian values and wildlife travel corridor.
42	Unique Site - SCA	32030042	23.5	SCA Riparian and wildlife travel corridor. Former SCA POG. Black spruce and tamarack swamp with upland ridges of aspen and jack pine.
45	Unique Site - SCA	32030045	5.5	Large black spruce, fir, and jack pine along the Escanaba River. Former SCA nomination, keep as SCA to protect the riparian values of the Escanaba River.
26	Unique Site - SCA	NF_32030026	102.0	Former SCA POG nomination. Stand varies from dead beaver killed black ash to tag alder to poorly stocked 2-6" black ash with a few cedar. Retain as an SCA riparian and wildlife travel corridor.
43	Unique Site - SCA	NF_32030043	10.1	Former SCA POG the stand consists of tag alder and willow along the creek. Retain as an SCA riparian and wildlife travel corridor.



**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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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.