



**Gwinn Forest Management Unit**  
**Compartment Review Presentation**  
**Compartment 079      Entry Year: 2014**  
**Compartment Acreage: 1,125      County: Marquette**

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**Revision Date:** 8/20/12

**Stand Examiner:** Kevin LaBumbard

**Legal Description:** T43N R24W Sec(s) 16, 17, 18

**RMU (if applicable):** Dead Horse Moraines Management Area

**Management Goals:** Improve the quality and diversity of the extensive Northern Hardwoods stands through selective management while maintaining the conifer component and den trees for wildlife.

**Soils and topography:** Geologic features include a nearly level glacial drainageway, ground moraines and till plains. Soils range from organic swamps and poorly drained loamy soils to well drained loams. Major soil series include Carbondale, Trenary loams and Kalkaska sands.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** This compartment is bordered on the north, east and south by additional State and corporate land and on the west by private forestland. Primary land use is production of commercial forest products and low key recreation.

**Unique, Natural Features:** GBH rookery to northeast. Eagle to the southwest in section 24. Potential for RSH and goshawk in M6 stands. Potential for calypso bulbosa, round leaved orchid, limestone oak fern and Cyripedium arietinum in cedar swamp.

**Archeological, Historical, and Cultural Features:** None identified with HAL but the compartment does contain evidence of old logging camps.

**Special Management Designations or Considerations:** Riparian corridor stands along drainages.

**Watershed and Fisheries Considerations:** This compartment contains no lake or stream fishery and only a few small drainages.

**Wildlife Habitat Considerations:** Maintain thermal cover for deer, as part of this compartment is deeryard. Optimize diversity in the treated northern hardwood stands. Featured species includes black bear, white-tailed deer, pileated woodpecker and ruffed grouse.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of an end moraine of medium-textured till and minor medium-textured glacial till and peat and muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Black River Group subgroups below the glacial drift. The Black River is quarried for stone/dolomite elsewhere in the UP. A gravel pit is located three miles to the south and there should be potential on the uplands. Abandoned iron mines are located nine miles to the north. There have been previous metallic leases in the township, but not in the compartment. There is no economic oil and gas production in the UP.

**Vehicle Access:** Access to the compartment is via Hamilton Homestead Road and the Escanaba River Road.

**Survey Needs:** None at this time

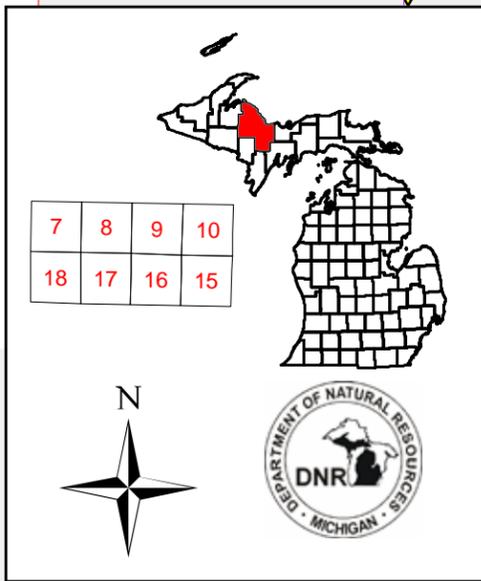
**Recreational Facilities and Opportunities:** The primary recreational activity for this area is for ruffed grouse and whitetail deer hunting.

**Fire Protection:** This compartment has a very low risk for wildfire.

**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**

Compartment: 079  
 T43N R24W Sec. 7-10, 15-18  
 County: Marquette  
 Unit: Gwinn  
 YOY: 2014  
 Acres: 1,125 GIS Calculated  
 Examiner: Kevin LaBumbard  
 Map Revised: 08/27/2012  
 Map Phase: Pre-Review



# Cover Type & Treatment Map

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

7	8	9	10
18	17	16	15

### Legend

- Remonumented Section Corners
- Miris Corners
- 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
- State Forest Land
- Lakes and Rivers

### Treatments

- Selection (Group, Single Tree)

### Forest Stands

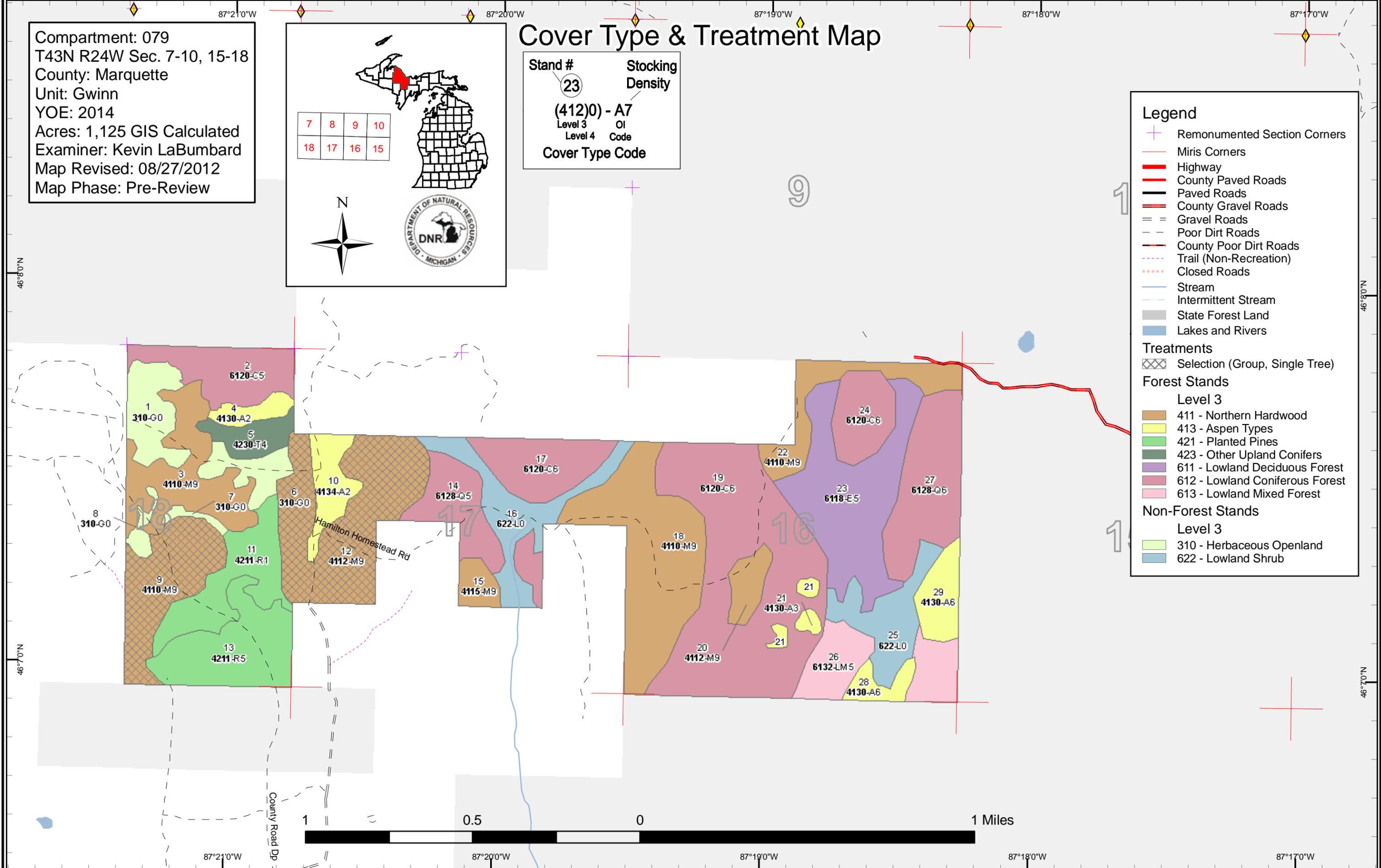
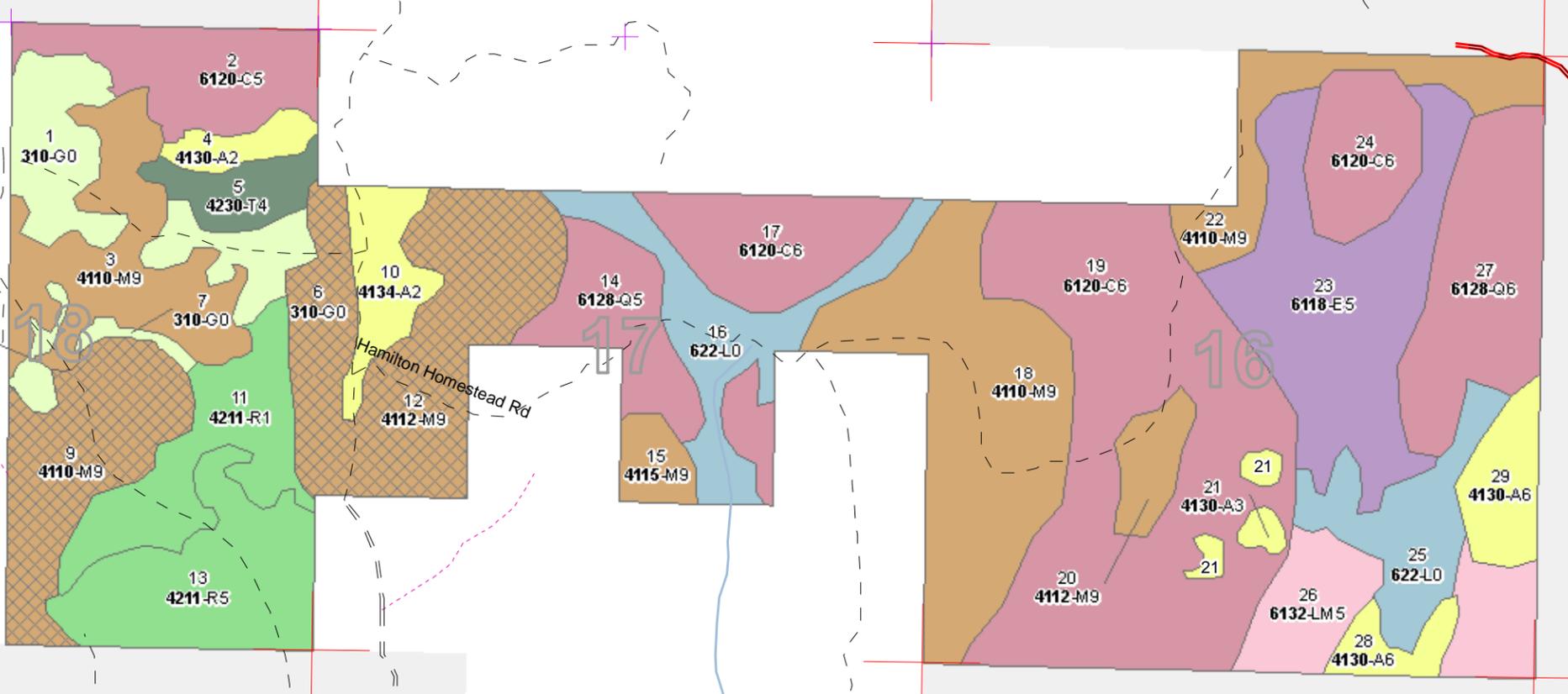
#### Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

### Non-Forest Stands

#### Level 3

- 310 - Herbaceous Openland
- 622 - Lowland Shrub



# Stand Boundary Map

Compartment: 079  
 T43N R24W Sec. 7-10, 15-18  
 County: Marquette  
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 YOE: 2014  
 Acres: 1,125 GIS Calculated  
 Examiner: Kevin LaBumbard  
 Map Revised: 06/20/2012  
 Map Phase: Pre-Review

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

**Legend**

- Remonumented Section Corners
- Miris Corners
- 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
- Stand Boundaries

**Forest Stands**

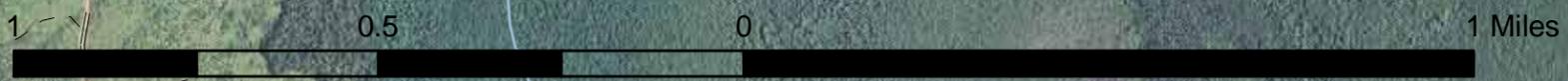
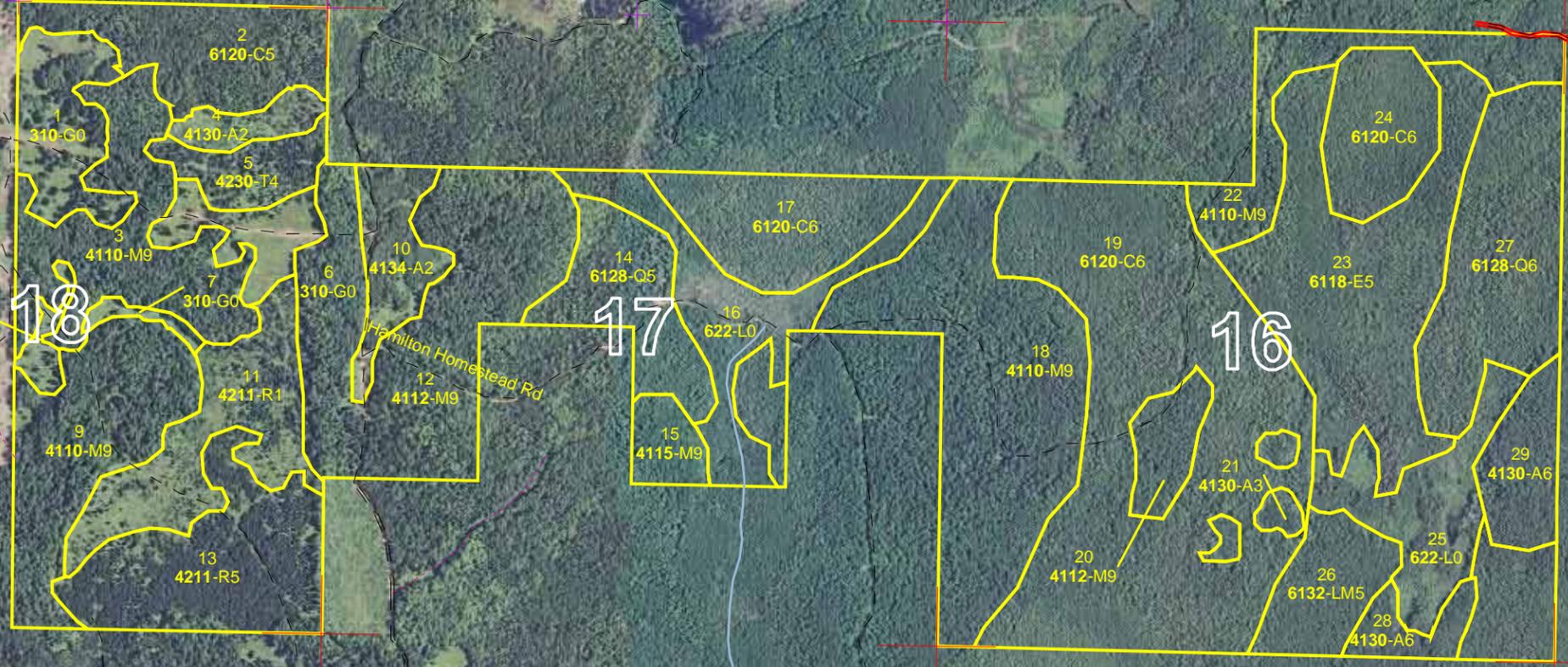
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**Non-Forest Stands**

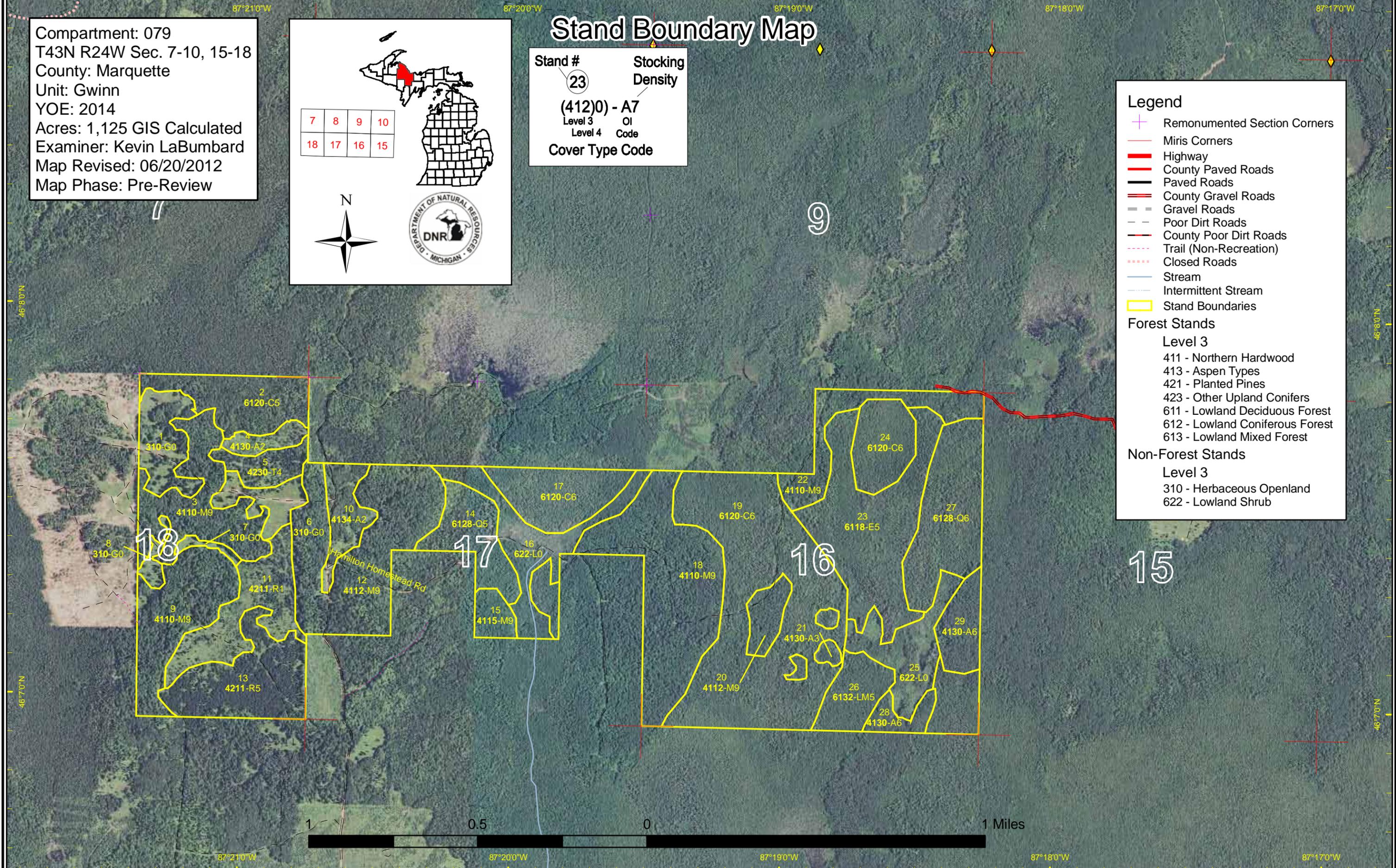
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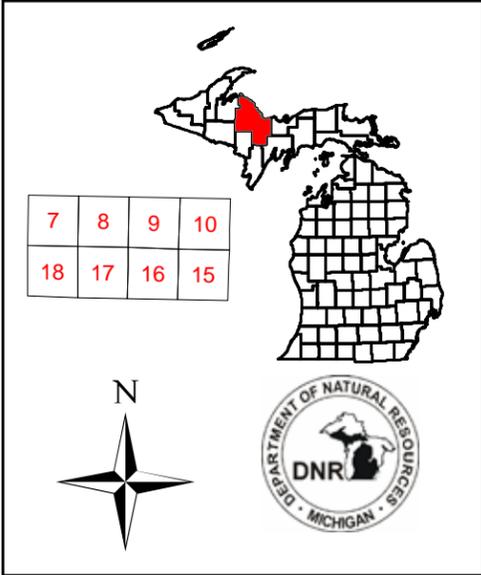
46°49'N

46°50'N



# Dedicated & Proposed Special Conservation Area Map

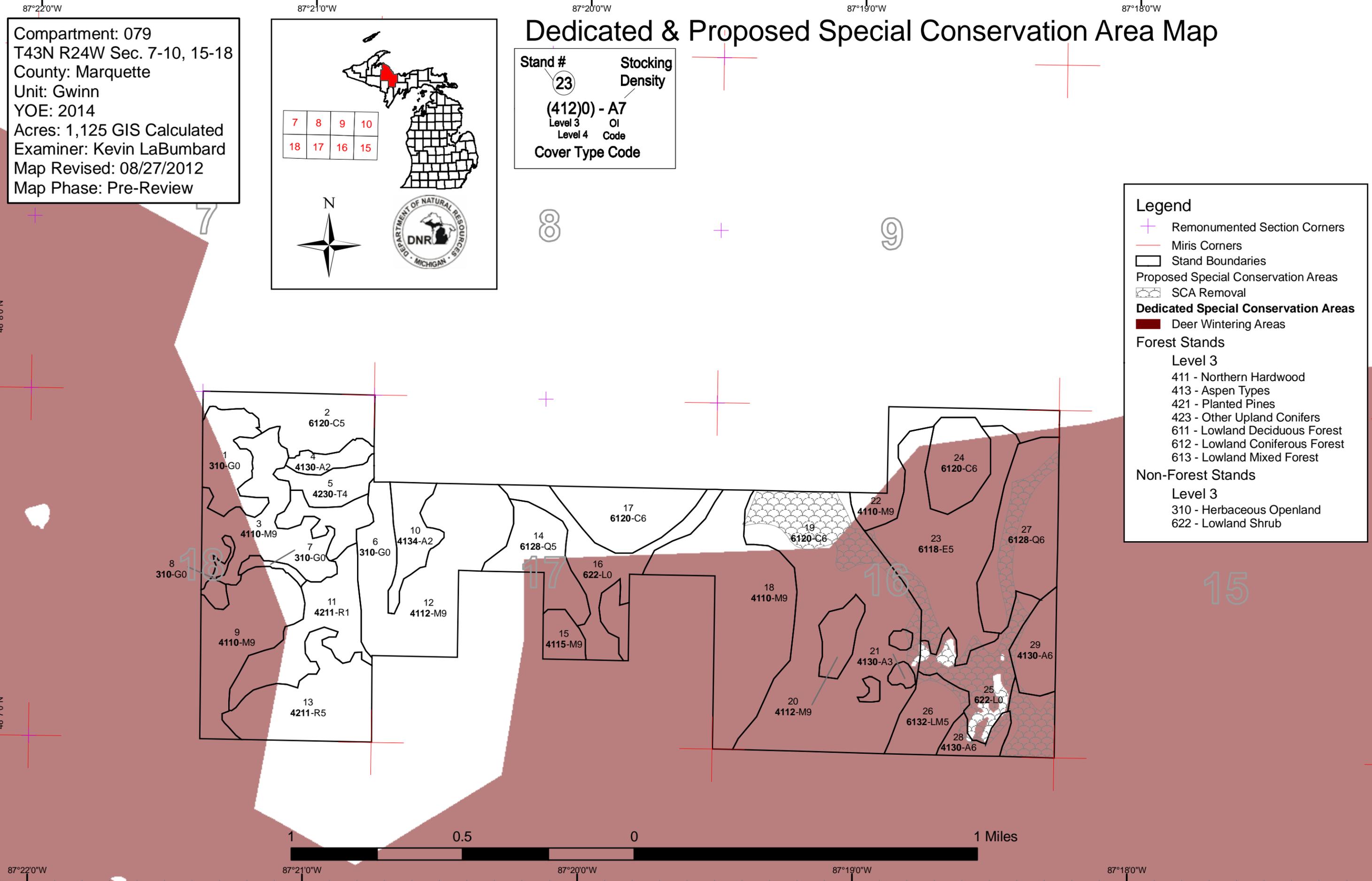
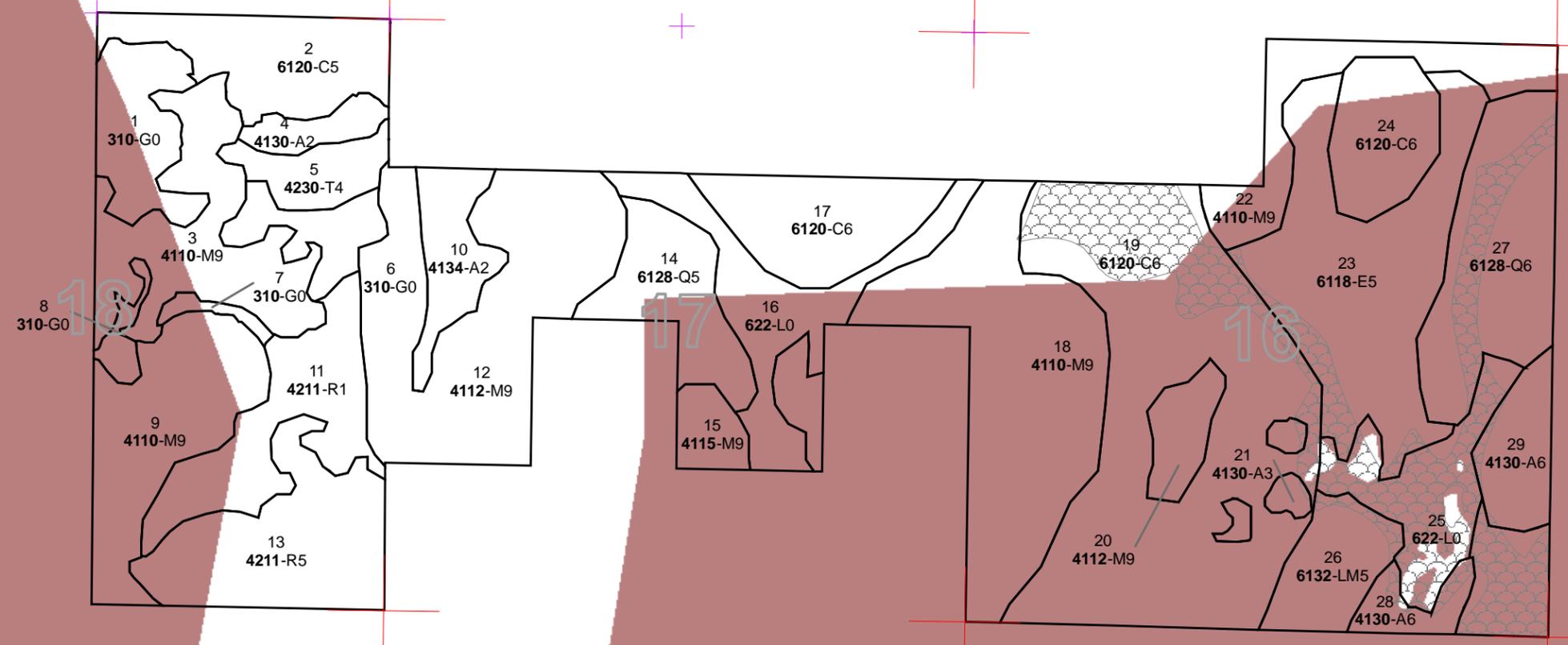
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 Examiner: Kevin LaBumbard  
 Map Revised: 08/27/2012  
 Map Phase: Pre-Review



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

**Legend**

- ✚ Remonumented Section Corners
- Miris Corners
- Stand Boundaries
- ▨ Proposed Special Conservation Areas
- ▤ SCA Removal
- Dedicated Special Conservation Areas**
- Deer Wintering Areas
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
- 413 - Aspen Types
- 421 - Planted Pines
- 423 - Other Upland Conifers
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- Non-Forest Stands**
- Level 3
- 310 - Herbaceous Openland
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**Table 1 – Total Acres by Cover Type and Age Class**

Kevin LaBumbard : Examiner



	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	9	26	0	29	0	0	0	0	0	0	0	0	0	0	65
Cedar	0	0	0	0	0	0	0	0	0	0	27	193	38	0	259
Herbaceous Openland	51	0	0	0	0	0	0	0	0	0	0	0	0	0	51
Lowland Conifers	0	0	0	0	0	0	0	0	96	0	0	0	0	0	96
Lowland Deciduous	0	0	0	0	0	0	0	0	87	0	0	0	0	0	87
Lowland Mixed Forest	0	0	0	0	0	0	0	0	39	0	0	0	0	0	39
Lowland Shrub	74	0	0	0	0	0	0	0	0	0	0	0	0	0	74
Northern Hardwood	0	0	0	0	0	0	0	0	0	345	0	0	0	0	345
Red Pine	0	0	96	0	0	0	0	0	0	0	0	0	0	0	96
Tamarack	0	0	15	0	0	0	0	0	0	0	0	0	0	0	15
<b>Total</b>	<b>133</b>	<b>26</b>	<b>111</b>	<b>29</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>222</b>	<b>345</b>	<b>27</b>	<b>193</b>	<b>38</b>	<b>0</b>	<b>1125</b>



## Table 2 – Proposed Treatment Summaries

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

**Compartment 079**  
**Total Compartment Acres: 1125**

### Acres by Treatment Type

Commercial Harvest - 144	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
Northern Hardwood	0	144	0	0	0	0	0	144
Total	0	144	0	0	0	0	0	144



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
9	32079009-Cut	51.4	4110 - Sugar Maple Association	High Density Log	98	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<p><u>Prescription</u> This stand will be scheduled for a selection harvest with a residual ba of 80-90 to improve overall stand quality yet retain species diversity, conifer content, and wildlife attributes. Large canopy gaps of approximately 80' will be created in an attempt to encourage hardwood regeneration. Marking will concentrate primarily in the poletimber class retaining most of basswood.</p> <p><u>Specs:</u></p> <p><u>Other</u> Fair quality hardwoods over heavy ironwood. Essentially no maple regeneration from the previous cutting despite large gaps. Good site quality</p> <p><u>Comments:</u> with leeks, leatherwood, dutchman's breeches, etc.</p> <p><u>Next</u> Monitor regeneration per Work Instructions.</p> <p><u>Steps:</u></p> <p><u>Proposed</u></p> <p><u>Start Date:</u> 10/01/2013</p>										

12	32079012-Cut	92.1	4112 - Maple, Beech, Cherry Association	High Density Log	98	81-110	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<p><u>Prescription</u> This stand will be scheduled for a selection harvest with a residual ba of 80-90 to improve overall stand quality yet retain species diversity, conifer content, and wildlife attributes. Large canopy gaps of approximately 80' will be created in an attempt to encourage hardwood regeneration. Marking will concentrate primarily in the poletimber class retaining most of basswood and yellow birch.</p> <p><u>Specs:</u></p> <p><u>Other</u> Decent northern hardwoods stand with ba's ranging from 130 to 70. Good M3 regen in old gaps, probably the result of very low ba's 20 years ago. The remainder of the stand has not regenerated under standard ba Rx's. Contains vernal ponds north of HH rd. Heavy ironwood in the understory.</p> <p><u>Comments:</u></p> <p><u>Next</u> Monitor regeneration per Work Instructions.</p> <p><u>Steps:</u></p> <p><u>Proposed</u></p> <p><u>Start Date:</u> 10/01/2013</p>										

**Total Treatment  
Acreage Proposed: 143.5**

**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									

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**Total Treatment Acreage Proposed: 0**



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	6120 - Lowland Cedar	Medium Density Pole	38.1	121		Swamp conifer stand, very wet comprised of approximately 60% cedar with a mix of red maple, balsam fir and white spruce.
3	4110 - Sugar Maple Association	High Density Log	52.3	98	81-110	2005-Cut by St. John under permit # 029-04-01 3/2006 Request to Harvest/Treat stands outside YOE for underplanting FTP # W32-650 - Signed by all Divisions and on file in CMPT 79
4	4130 - Aspen	Medium Density	9.2	4		2005-Cut by St. John under permit # 029-04-01.
5	42300 - Planted Larch	Low Density Pole	15.2	25		Planted to european larch in 1986 which was hit hard by wildlife browsing (deer and porkys) Remaining trees are 20-30' tall mixed with fir and white spruce poles and saps.
9	4110 - Sugar Maple Association	High Density Log	51.4	98	111-140	Fair quality hardwoods over heavy ironwood. Essentially no maple regeneration from the previous cutting despite large gaps. Good site quality with leeks, leatherwood, dutchman's breeches, etc.
10	4134 - Aspen, Spruce/Fir	Medium Density	19.8	16		2-4" aspen saplings with scattered balsam fir. Semi open. A2F1
11	42110 - Planted Red Pine	Low Density Sapling	42.6	25		The northern portion of a larger stand planted in 1986 which had poor survival and growth rate. Semi open areas are heavy grass.
12	4112 - Maple, Beech, Cherry Association	High Density Log	92.1	98	81-110	Decent northern hardwoods stand with ba's ranging from 130 to 70. Good M3 regen in old gaps, probably the result of very low ba's 20 years ago. The remainder of the stand has not regenerated under standard ba Rx's. Contains vernal ponds north of HH rd. Heavy ironwood in the understory.
13	42110 - Planted Red Pine	Medium Density Pole	53.1	25	81-110	Planted in 1986, dense stocking with skips in survival throughout the stand. Short, 1 stick 7" dbh poles.
14	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	38.7	85		Q5 over tag alder
15	4115 - Y.Birch, Hemlock NH	High Density Log	9.8	98	81-110	Cut hard in 1980. West side of stand has lower dbh and stocking level with a ba of about 80. Occasional large hemlock and yb.
17	6120 - Lowland Cedar	High Density Pole	35.9	110		C4Q4E4, cedar with swamp conifers.
18	4110 - Sugar Maple Association	High Density Log	95.3	98		Good quality northern hardwood stand. 2006-Treated by St. John under permit # 030-04-01 in 2005. 3/2006 Request to Harvest/Treat stands outside YOE for underplanting FTP # W32-651 - Signed by all Divisions and on file in CMPT 79. 20,000 hemlock seedlings were planted within the timber sale boundary of the Hamilton House sale (#32-030-04) in May, 2006. The sale was comprised of stands 20 and 18 in this compartment. The planting rate was approximately 345 seedlings/acre.

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## Gwinn Mgt. Unit

## 5 – Forested Stands

Compartment: 079

Year of Entry: 2014



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	6120 - Lowland Cedar	High Density Pole	157.4	110		C4Q4E4, cedar with swamp conifers.
20	4112 - Maple, Beech, Cherry Association	High Density Log	12.7	98	81-110	Poor quality northern hardwood stand. 2006-Treated by St. John under permit # 030-04-01 in 2005. 3/2006 Request to Harvest/Treat stands outside YOE for underplanting FTP # W32-651 - Signed by all Divisions and on file in CMPT 79. 20,000 hemlock seedlings were planted within the timber sale boundary of the Hamilton House sale (#32-030-04) in May, 2006. The sale was comprised of stands 20 and 18 in this compartment. The planting rate was approximately 345 seedlings/acre.
21	4130 - Aspen	High Density Sapling	6.7	16		3 small stands of dense1" aspen saplings over scattered small fir. Cut under permit 035-94-01.
22	4110 - Sugar Maple Association	High Density Log	31.6	98	81-110	Area treated under timber sale # 035-094-01. Poor quality. Approximately 3 acres of stand treated under #021-09-01 "H.H. Patches" - cut Sept., 2010. BA all over the place, stand was cut hard last entry except along the blue line.
23	6118 - Lowland Deciduous with Cedar	Medium Density Pole	86.7	85		
24	6120 - Lowland Cedar	High Density Pole	27.2	100		Cedar with associated swamp conifers.
26	6132 - Mixed Lowland Forest with Cedar	Medium Density Pole	39.3	85		E4Q4 Black ash with fir and cedar
27	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	57.1	85		Mix of cedar, fir, aspen, balm, w.birch
28	4130 - Aspen	High Density Pole	9.8	35		A5A3F1
29	4130 - Aspen	High Density Pole	19.2	35		A5A3 Stand is transitioning to a pole stand.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	310 - Herbaceous Openland	26.4	No	Unspecified	includes clumps of hardwoods.
6	310 - Herbaceous Openland	16.0	No	Unspecified	
7	310 - Herbaceous Openland	3.2	No	Unspecified	
8	310 - Herbaceous Openland	5.0	No	Unspecified	
16	622 - Lowland Shrub	39.8	No	Unspecified	
25	6220 - Alder/willow	33.7	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.

<b>Stand</b>	<b>SCA Type</b>	<b>SCA Name</b>	<b>Acres</b>	<b>Comments</b>
multiple - see	SCA Removal	32079_SCA	110.1	No "special values" to warrant SCA status.



**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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.