



**Gwinn Forest Management Unit**  
**Compartment Review Presentation**  
**Compartment 082      Entry Year: 2013**  
**Compartment Acreage: 1, 330      County: Marquette**

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

**Stand Examiner:** Theresa Sysol

**Legal Description:** T43N R24W Section 25 – 27, 34

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

**Management Goals:** To maintain and improve forest health and sustainability, while providing for wildlife, fisheries and recreational needs.

**Soil and Topography:** Large block of Carbondale-Lupton-Tawas and Cathro-Ensley mucks, with inclusions of Shoepac-Ensley, Charlevoix-Ensley ground moraines.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Numerous parcels of private lands surround State ownership, limiting access to interior.

**Unique, Natural Features:** Potential for round-leaved orchis, calypso, ram's head lady's slipper, marsh grass-of-Parnassass, and limestone oak fern in Cedar Swamps. 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 conifer stands. Potential for Assiniboia sedge and goblin moonwort in mature northern hardwoods. Potential for osprey, eagle, and great blue heron rookery. Potential for red-shouldered hawk. Potential for moose and wolf.

**Archeological, Historical, and Cultural Features:** none identified

**Special Management Designations or Considerations:** large block of deer wintering area

**Watershed and Fisheries Considerations:** Summer Meadow Creek

**Wildlife Habitat Considerations:** A large portion of this compartment is an important deer wintering complex. Identify and implement strategies that increase mesic conifer such as cedar, hemlock, spruce, and white pine. In Special Conservation Areas, maintain closed canopy conifer to provide snow intercept, cover, browse, and mature forest structure and protection for wildlife corridors. 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 medium-textured glacial till and peat and muck. There is less than 50 feet of glacial drift or insufficient data to determine the glacial drift thickness. The Ordovician Trenton and Black River Groups subcrop below the glacial drift. These rocks are quarried for stone/dolomite elsewhere in the UP. A gravel pit is located in Section 36 and there is potential in the south half of the compartment. Abandoned iron mines are located fourteen miles to the north. Section 23 to the north was previously leased for metallic exploration. There is no economic oil and gas production in the UP.

**Vehicle Access:** Good county road access to the edges of the compartment; few interior roads present.

**Survey Needs:** none at this time

**Recreational Facilities and Opportunities:** mainly hunting, though limited by access

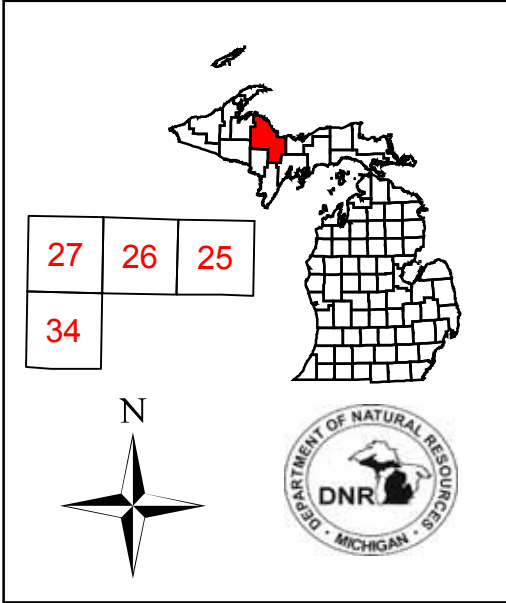
**Fire Protection:** Natural fire occurrence would present suppression difficulties.

**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 82  
 T43N, R24W, Sec. 25, 26, 27, 34  
 County: Marquette  
 Unit: Gwinn  
 YOY: 2013  
 Acres: 1,330 GIS Calculated  
 Stand Examiner: Theresa Sysol  
 Map Revised: 8/23/2011  
 Map Phase: Pre-Review



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

**Legend**

- Miris Corners
- RIs Corners
- Remonumented Section Corners
- Wooden Posts
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Gates
- Camps
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

**Treatments**

- Clearcut (w/Reserves, Patch/Strip)
- Other Treatment - See Comments

**Forest Stands**

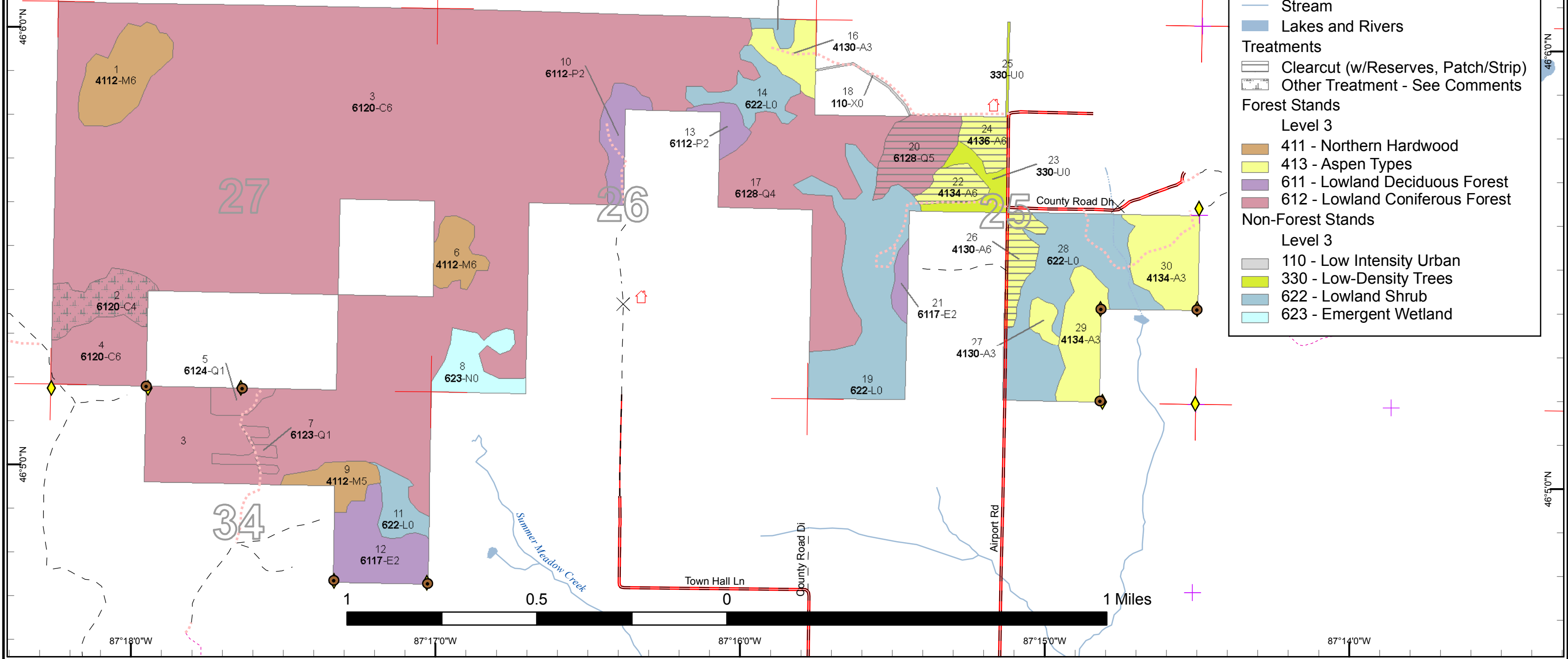
Level 3

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

**Non-Forest Stands**

Level 3

- 110 - Low Intensity Urban
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland





# Stand Boundary Map

Compartment 82  
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 23  
**Stocking Density**  
 (412)0 - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**

**Legend**

- Miris Corners
- ◆ RIs Corners
- ✚ Remonumented Section Corners
- Wooden Posts
- County Gravel Roads
- - Poor Dirt Roads
- - County Poor Dirt Roads
- - Trail (Non-Recreation)
- ⋯ Closed Roads
- ✕ Gates
- 🏠 Camps
- ▭ Stand Boundaries

**Forest Stands**

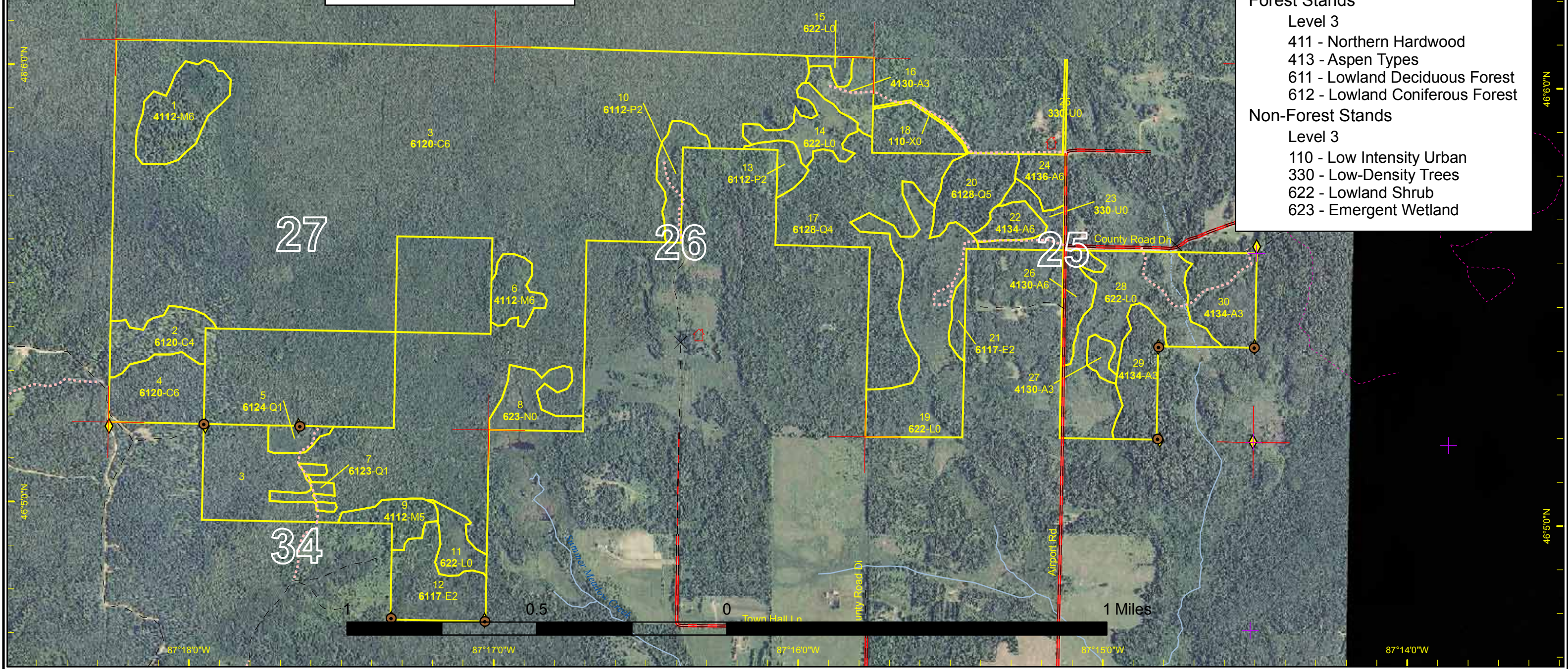
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**Non-Forest Stands**

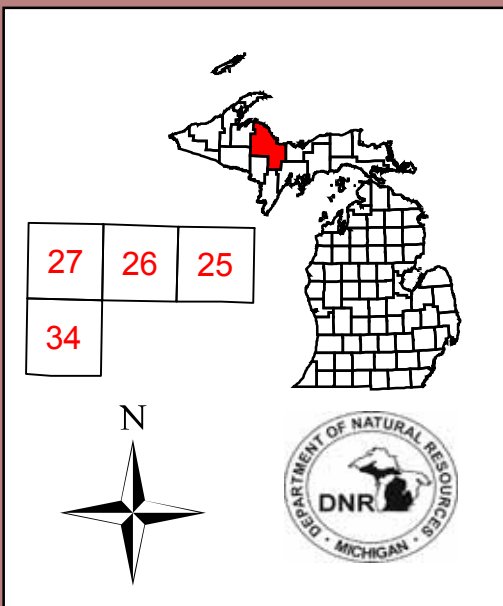
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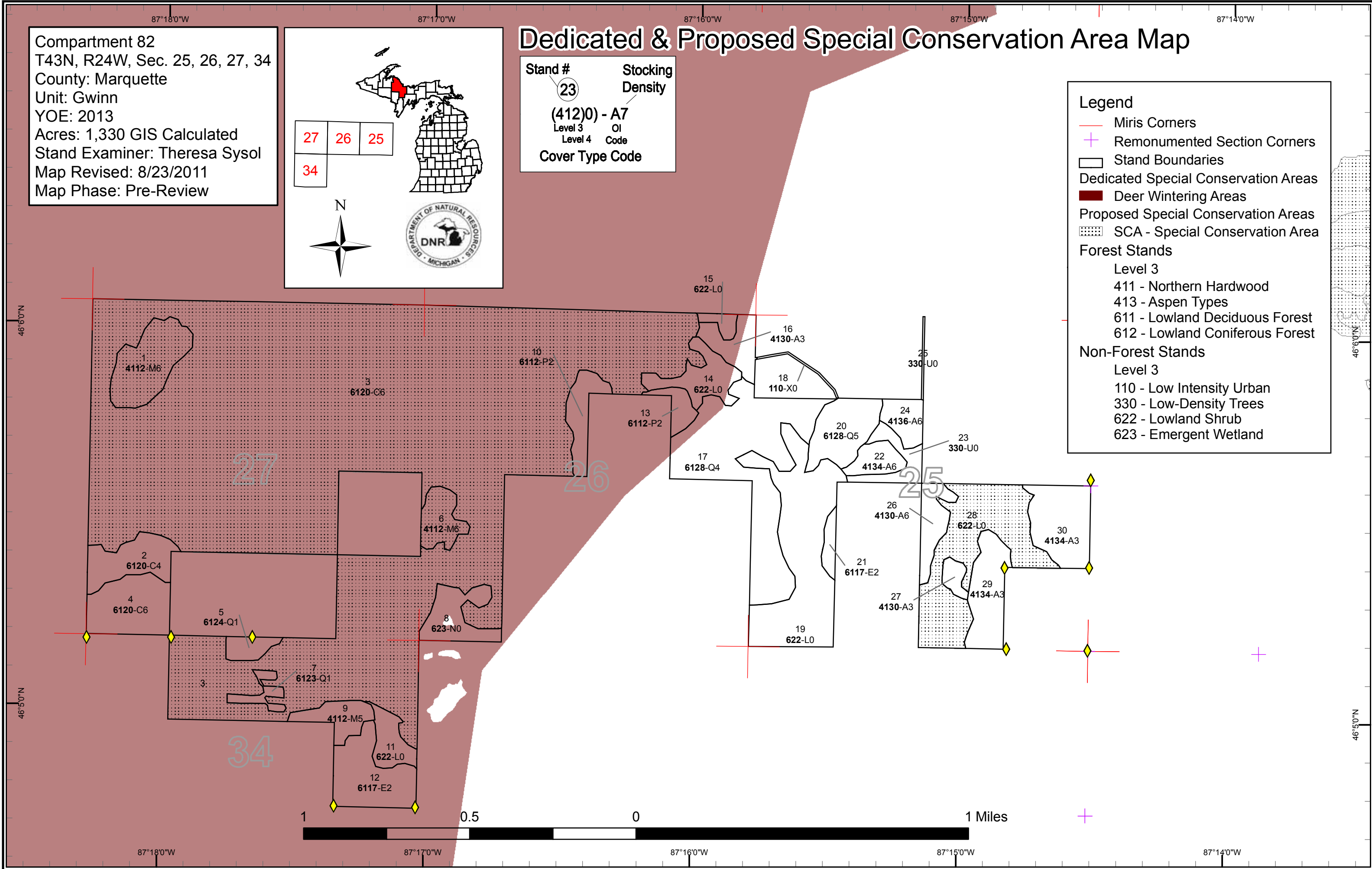


# Dedicated & Proposed Special Conservation Area Map

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

## Legend

- Miris Corners
- + Remonumented Section Corners
- Stand Boundaries
- Dedicated Special Conservation Areas
- Deer Wintering Areas
- Proposed Special Conservation Areas
- ▨ SCA - Special Conservation Area
- Forest Stands
  - Level 3
  - 411 - Northern Hardwood
  - 413 - Aspen Types
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
- Non-Forest Stands
  - Level 3
  - 110 - Low Intensity Urban
  - 330 - Low-Density Trees
  - 622 - Lowland Shrub
  - 623 - Emergent Wetland



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



	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	12	26	0	26	30	0	0	0	0	0	0	0	0	0	95
Cedar	0	0	0	0	0	0	0	0	0	0	0	823	0	0	19	842
Low-Density Trees	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Aspen/Balsam Poplar	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	19
Lowland Conifers	0	0	0	11	0	0	0	0	101	0	0	0	0	0	0	112
Lowland Deciduous	0	0	4	27	0	0	0	0	0	0	0	0	0	0	0	32
Lowland Shrub	153	0	0	0	0	0	0	0	0	0	0	0	0	0	0	153
Marsh	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Northern Hardwood	0	0	0	0	0	0	0	0	0	23	26	0	0	0	0	50
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<b>Total</b>	<b>181</b>	<b>12</b>	<b>50</b>	<b>39</b>	<b>26</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>101</b>	<b>23</b>	<b>26</b>	<b>823</b>	<b>0</b>	<b>0</b>	<b>19</b>	<b>1330</b>



## Table 2 – Proposed Treatment Summaries

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

**Compartment 082**  
**Total Compartment Acres: 1330**

### Acres by Treatment Type

Commercial Harvest - 52	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 19
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>	30	0	0	0	0	0	30
<b>Lowland Conifers</b>	22	0	0	0	0	0	22
<b>Total</b>	52	0	0	0	0	0	52

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
20 32082020-Cut	21.5	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	78	Harvest	Clearcut with Reserves	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal

Prescription Harvest all aspen, paper birch, red maple, fir, spruce and tamarack. Retain any white pine.

Specs:

Other Wet stand - will need frozen ground to harvest.

Comments:

Next Steps: Regeneration survey will be needed per Work Instructions. Acceptable species mix includes aspen, birch, maple, fir, spruce, tamarack, and white pine in various amounts.

22 32082022-Cut	8.7	4134 - Aspen, Spruce/Fir	High Density Pole	45	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
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Prescription Harvest all aspen, spruce and fir. Some cherry within to be retained for diversity.

Specs:

Other Some low ground within, heavier to tagalder. Portion of stand 23 may be treated where accessible.

Comments: per WLD: no chipping

Next Steps: Regeneration survey will be needed per Work Instructions. Acceptable species mix includes aspen, birch, spruce and fir in various amounts.

24 32082024-Cut	9.4	4136 - Aspen, Mixed Conifer	High Density Pole	45	Harvest	Clearcut with Reserves	4136 - Aspen, Mixed Conifer	Cmpt. Review Proposal
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Prescription Harvest all aspen, birch, red maple, tamarack, and fir. Retain large white spruce and all cedar.

Specs:

Other Wet areas throughout stand - will need frozen conditions to operate. Portion of stand 23 may be treated where accessible.

Comments: per WLD: no chipping

Next Steps: Regeneration survey will be needed per Work Instructions. Acceptable species mix includes aspen, birch, maple, spruce, fir, tamarack in various amounts.

26 32082026-Cut	12.0	4130 - Aspen	High Density Pole	46	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
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Prescription Harvest all aspen, paper birch, balsam fir and black spruce. Retain any white spruce and cherry for diversity.

Specs:

Other Evaluate maple for harvest/leave trees once intensive cruise is completed.

Comments: per WLD: no chipping

Next Steps: Regeneration survey will be needed per Work Instructions. Acceptable species mix includes aspen, birch, maple, spruce, and fir in various amounts.

2 32082002-Other	19.1	6120 - Lowland Cedar	Low Density Pole	110	Other	Unspecified	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Needs regeneration check, per work instructions, before next entry period. Acceptable species mix includes aspen, paper birch, red maple, fir, spruce and cedar.

Other

Comments:

Next Steps: If regeneration is unsuccessful, consider planting or seeding options.

**Total Treatment  
Acreage Proposed: 70.7**



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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  
Comment:

Next  
Steps:

Limiting Factor and No  
Treatment Reason

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**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**



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4112 - Maple, Beech, Cherry Association	High Density Pole	26.5	90		Hardwood island within cedar swamp.
2	6120 - Lowland Cedar	Low Density Pole	19.1	Uneven Age		T. sale #028-03 "G.A. Block" - cut 12/04 - 01/05. Mainly hardwood, paper birch, spruce/fir removed. Cedar retained and one stick spruce/fir.
3	6120 - Lowland Cedar	High Density Pole	796.9	105		Cedar stand with isolated pockets/islands of maple, birch, ash and spruce/fir. Some hemlock noted. Patches of blowdown.
4	6120 - Lowland Cedar	High Density Pole	26.0	105		
5	6124 - Lowland Spruce-Fir	Low Density Sapling	6.1	25		Regenerating stand ~ 10 - 20 ft hts.
6	4112 - Maple, Beech, Cherry Association	High Density Pole	12.0	88		
7	6123 - Lowland Fir	Low Density Sapling	5.2	25		Regenerating stand ~ 10 - 20 ft hts
9	4112 - Maple, Beech, Cherry Association	Medium Density Pole	11.2	88	51-80	T. sale # 026-93-2 (15.6 acs) "Arne's Block" - cut August, 1995. Cut removed primarily aspen, fir and spruce. Patches of residual cedar within.
10	6112 - Lowland Aspen	Medium Density	12.6	14		T. sale # 056-95-2 "Ben's Block" - cut W, 1996 (~ 13acs)
12	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density	27.5	29		Small sales #23-78 - cut 1980-82 primarily to feed deer. Small island of pole-sized spruce,tamarack, paper birch within (~50 BA).
13	6112 - Lowland Aspen	Medium Density	6.2	14		T. sale # 051-96-2 "Ben's Block #2" and #052-96-2 "Ben's Block #3" - cut fall, 1995 - Jan, 1996
16	4130 - Aspen	High Density Sapling	12.3	3		T. sale # 027-03 "Kirby Aspen" - cut Jan, 2007 (12 acs)
17	6128 - Lowland Coniferous, Mixed Deciduous	Low Density Pole	79.0	78		
20	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	21.5	78		
21	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density	4.3	14		T. sale # 027-93-1 "D.A.N. Block" - cut Feb, 1995
22	4134 - Aspen, Spruce/Fir	High Density Pole	8.7	45		Thicker aspen with balsam fir underneath on higher ground. Some heavier tagalder areas w/low stocked aspen included.



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Gwinn Mgt. Unit

## 5 – Forested Stands

Compartment: 082  
Year of Entry: 2013

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	4136 - Aspen, Mixed Conifer	High Density Pole	9.4	45		Aspen overtopping balsam fir/spruce.
26	4130 - Aspen	High Density Pole	11.9	46		Aspen overtopping fir.
27	4130 - Aspen	High Density Sapling	4.2	34		Aspen island with conifer fringe within tagalder lowland. Part of t. sale #13-75, cut 1976.
29	4134 - Aspen, Spruce/Fir	High Density Sapling	22.3	34		T. sale #13-75 - cut from 1976 - 1980. Includes uncut area of mature A/M at north end.
30	4134 - Aspen, Spruce/Fir	High Density Sapling	26.4	16		T. sale #024-93-1 "Spade Block" - cut December, 1994



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
8	6239 - Mixed Emergent Wetland	16.7	No	Unspecified	part of Summer Meadow Creek within
11	6220 - Alder/willow	10.4	N/A	Unspecified	
14	6220 - Alder/willow	16.2	No	Unspecified	
15	6220 - Alder/willow	3.5	No	Unspecified	
18	11 - Low Intensity Urban	1.1	No	Unspecified	Cleared woods road.
19	6220 - Alder/willow	66.5	No	Unspecified	Very small amount of timber.
23	3303 - Mixed Low Density Trees	9.5	No	Unspecified	
25	3303 - Mixed Low Density Trees	1.0	No	Unspecified	Could be used for future road access to State lands to the north.
28	6220 - Alder/willow	56.3	No	Unspecified	Spruce/tamarack islands within lowland. Snags and phragmites. Drainages and beaver floodings.



## 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	32082001	26.5	SCA - biodiversity opportunity: remote hardwood island within inaccessible lowland cedar complex, providing landscape diversity. Never managed. Deer wintering ground complex.
3	Unique Site - SCA	32082003	796.9	SCA - historic and current deer wintering complex- heavy use. Large cedar complex. Maintain large closed canopy conifer for snow intercept and thermal protection. Provide forest structure in the form of standing and dead and down coarse woody debris. Protect cedar and maintain mature conifer.
6	Unique Site - SCA	32082006	12.0	SCA - biodiversity opportunities: isolated hardwood stand within cedar complex. Deer winter grounds - heavy use.
28	Unique Site - SCA	NF_32082028	56.3	SCA - protect wetland integrity; small drainage within





**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.