



**Gwinn Forest Management Unit
Compartment Review Presentation
Compartment #276 Entry Year: 2012
Compartment Acreage: 833 County: Marquette**

Revision Date: 7/27/2010

Stand Examiner: Dean Wilson

Legal Description: T46N-R25W, sections 4, 9, 16.

Identified Planning Goals ('Management Area' or 'RMU', if applicable): Mixed use.

Management Goals: Forest production.

Soil and Topography: Coarse sands occur over level glacial outwash plains.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is bounded by industrial and non-industrial private ownerships.

Unique, Natural Features: A large opening complex that was once a managed sharptail grouse area occurs in this tract. Jack pine plains.

Archeological, Historical, and Cultural Features: N\A

Special Management Designations or Considerations: N\A

Watershed and Fisheries Considerations: N\A

Wildlife Habitat Considerations: Sands Plains. Historic fire disturbance maintained the pine and barrens communities found here with a significant portion of the area maintained as large opening complexes. These openings and patchy cover-types historically provided habitat for sharptail grouse, and currently are used by grassland/barrens species such as northern harrier, upland sandpiper, brown thrasher, thirteen-lined ground squirrel, and badger.

Try to increase stand size in jack pine and encourage other conifer components such as white pine, red pine, and spruce to increase diversity for wildlife.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 100 and 200 feet. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. Some of the Granite/Gneiss might be used for dimension stone. Gravel pits are located just to the south of the compartment, and potential appears to be good. Abandoned iron mines are located eight miles to the south. Section 9 was previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access: Is good to and internally for this compartment.

Survey Needs: N\A

Recreational Facilities and Opportunities: A managed snowmobile trail runs through this compartment.

Fire Protection: High risk fire area that is included in the zone dispatch plan

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**

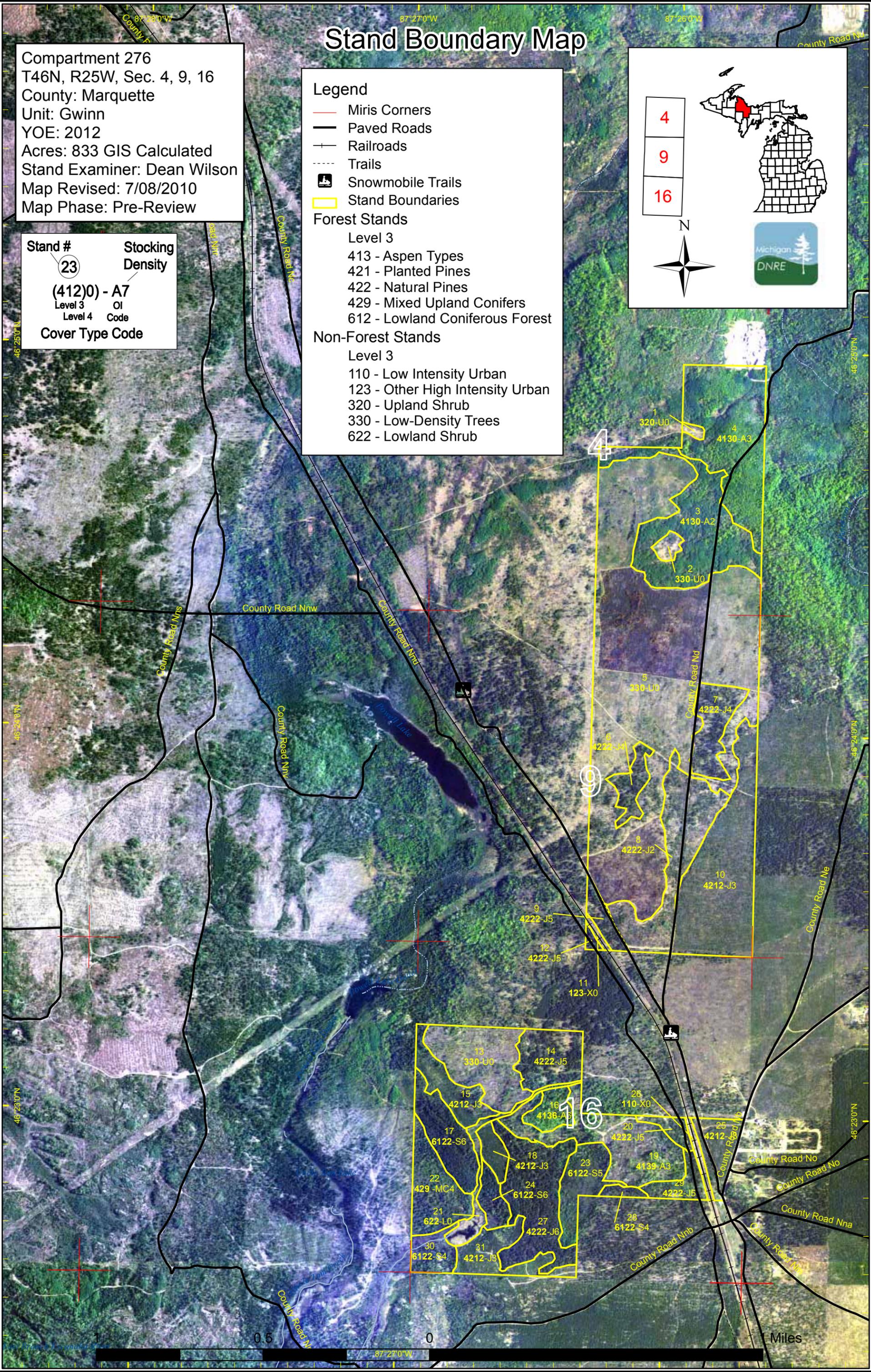
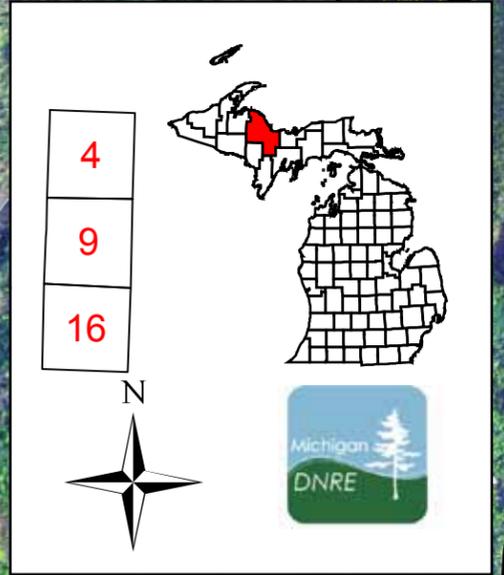
Stand Boundary Map

Compartment 276
 T46N, R25W, Sec. 4, 9, 16
 County: Marquette
 Unit: Gwinn
 YOE: 2012
 Acres: 833 GIS Calculated
 Stand Examiner: Dean Wilson
 Map Revised: 7/08/2010
 Map Phase: Pre-Review

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

Legend

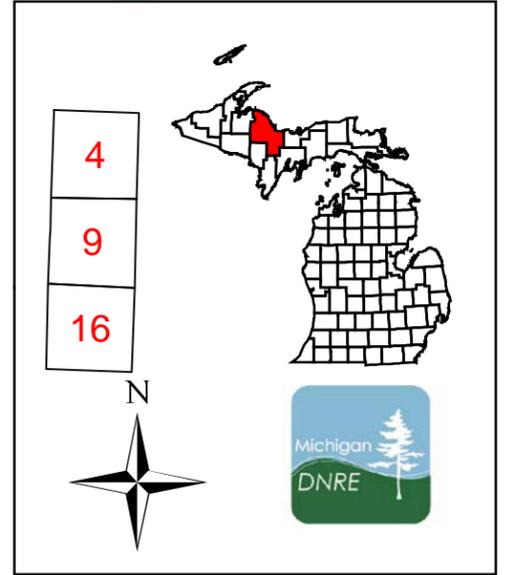
- Miris Corners
 - Paved Roads
 - Railroads
 - - - Trails
 -  Snowmobile Trails
 - Stand Boundaries
- Forest Stands**
- Level 3
- 413 - Aspen Types
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 429 - Mixed Upland Conifers
 - 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- Level 3
- 110 - Low Intensity Urban
 - 123 - Other High Intensity Urban
 - 320 - Upland Shrub
 - 330 - Low-Density Trees
 - 622 - Lowland Shrub



Miles

Dedicated & Proposed Special Conservation Area™ Map

Compartment 276
 T46N, R25W, Sec. 4, 9, 16
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Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
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Cover Type Code

Legend
 — Miris Corners
 □ Stand Boundaries
 Proposed Special Conservation Areas
 ▨ SCA - Special Conservation Area
 Dedicated Special Conservation Areas
 — Cold Water Streams
 ■ Cold Water Lakes

46°25'0"N

46°25'0"N

46°24'0"N

46°24'0"N

46°23'0"N

46°23'0"N

1 0.5 0 1 Miles

87° 87°27'0"W

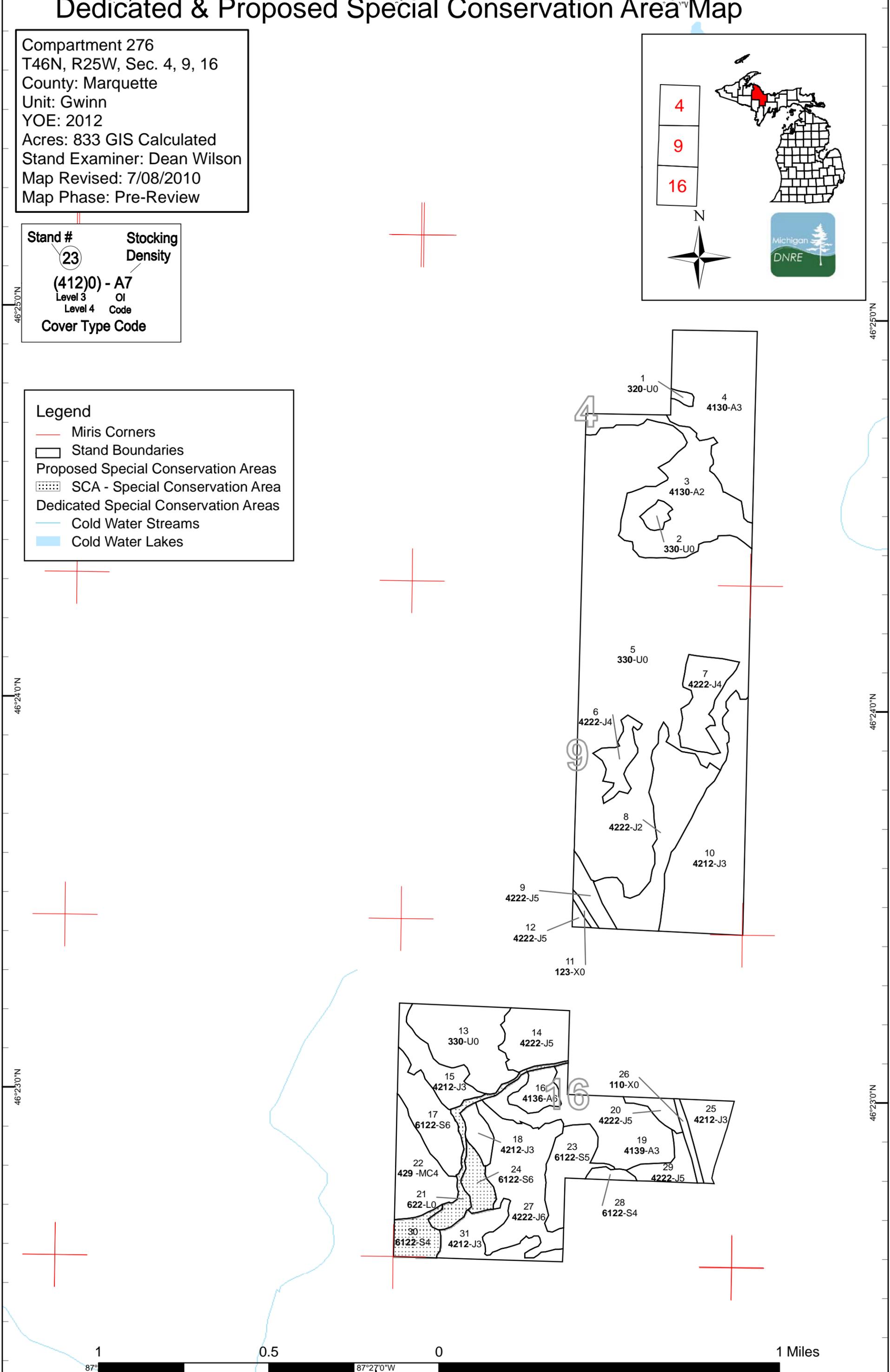


Table 1 – Total Acres by Cover Type and Age Class

Data updated before 2:00 PM



	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	41	0	116	0	9	0	0	0	0	0	0	0	0	0	166
Jack Pine	0	0	121	47	16	20	29	0	42	0	0	0	0	0	0	276
Low-Density Trees	293	0	0	0	0	0	0	0	0	0	0	0	0	0	0	293
Lowland Shrub	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Spruce/Fir	0	0	0	0	0	0	26	0	21	0	0	0	0	0	13	59
Upland Conifers	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	24
Upland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Total	309	41	121	187	16	29	55	0	63	0	0	0	0	0	13	833



Table 2 – Proposed Treatment Summaries

Data updated before 2:00 PM

Gwinn Mgt. Unit
Year of Entry 2012

Compartment 276
Total Compartment Acres: 833.1

Acres by Treatment Type

Commercial Harvest - 63	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
Jack Pine	42	0	0	0	0	0	42
Lowland Spruce/Fir	21	0	0	0	0	0	21
Total	63	0	0	0	0	0	63

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Data updated before 2:00 PM

	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
17	32276017-Cut	20.7	6122 - Black Spruce	High Density Pole	79	Harvest	Clearcut with Reserves	Black Spruce	Cmpt. Review Proposal

Prescription: Clearcut more well drained portions of this stand leaving patches of spruce to provide seed for regeneration and to meet retention guidelines.
Specs:

Other Comments: Areas of slightly elevated uplands supporting jack pine should be checked for artificial regeneration of jack pine. Consider hand planting 2-0 seedlings immediately post harvest. This sale will be a winter operation.

Next Steps: Evaluate regeneration options immediately post harvest.

27	32276027-Cut	41.9	42220 - Natural Jack Pine	High Density Pole	72	Harvest	Clearcut	Planted Jack Pine	Cmpt. Review Proposal
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Prescription: Clearcut jack pine followed by disk trenching and seeding jack pine. Herbicide as necessary.
Specs:

Other Comments:

Next Steps: Check for regeneration per work instruction guidelines.

**Total Treatment
Acreage Proposed: 62.6**

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Data updated before 2:00 PM

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
Acres Proposed: 0

Data updated before 2:00 PM

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2012



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**

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Gwinn Mgt. Unit

5 – Forested Stands
Data updated before 2:00 PM

Compartment: 276
Year of Entry: 2012



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
3	4130 - Aspen	Medium Density	55.4	20		
4	4130 - Aspen	High Density Sapling	61.0	25	1-50	Harvested in 1985.
6	42220 - Natural Jack Pine	Low Density Pole	9.4	50	1-50	
7	42220 - Natural Jack Pine	Low Density Pole	18.4	50	1-50	
8	42220 - Natural Jack Pine	Medium Density	42.5	20		
9	42220 - Natural Jack Pine	Medium Density Pole	6.8	30	1-50	Two aged due to fire history.
10	42120 - Planted Jack Pine	High Density Sapling	67.3	15		Harvested in 1994: TS#18-93. Planted in May 1995.
12	42220 - Natural Jack Pine	Medium Density Pole	1.5	50	1-50	
14	42220 - Natural Jack Pine	Medium Density Pole	20.4	42	51-80	Stand regenerated after a fire in 1968.
15	42120 - Planted Jack Pine	High Density Sapling	15.5	16		Harvested in 1993: TS#7-92. Planted in May 1994.
16	4136 - Aspen, Mixed Conifer	High Density Pole	8.5	41	51-80	Harvested in 1969.
17	6122 - Black Spruce	High Density Pole	20.7	79	81-110	
18	42120 - Planted Jack Pine	High Density Sapling	6.3	16		Harvested in 1992: TS#7-92. Planted in May 1994.
19	4139 - Aspen, Mixed Deciduous	High Density Sapling	41.3	7		Harvested in 2003: TS#117-02-01.
20	42220 - Natural Jack Pine	Medium Density Pole	4.9	20	1-50	
22	429 - Mixed Upland Conifers	Low Density Pole	23.6	25	1-50	Harvested in 1985 and left open for wildlife.
23	6122 - Black Spruce	Medium Density Pole	17.9	59	1-50	Very wet bog.
24	6122 - Black Spruce	High Density Pole	7.8	50	81-110	

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Gwinn Mgt. Unit

5 – Forested Stands

Compartment: 276

Data updated before 2:00 PM

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
25	42120 - Planted Jack Pine	High Density Sapling	13.8	16		Harvested in 1993: TS#7-92. Planted in May of 1994.
27	42220 - Natural Jack Pine	High Density Pole	41.9	72	81-110	
28	6122 - Black Spruce	Low Density Pole	2.7	Uneven Age	1-50	
29	42220 - Natural Jack Pine	Medium Density Pole	8.7	30	1-50	
30	6122 - Black Spruce	Low Density Pole	9.9	Uneven Age	1-50	Contains rock outcrops. Experienced significant windthrow in 2002.
31	42120 - Planted Jack Pine	High Density Sapling	18.1	16		Harvested in 1993: TS#7-92. Planted in May 1994.



Stand	Cover Type	Acres	Gen Cmts:
1	3201 - Sweet Fern	1.4	
2	3303 - Mixed Low Density Trees	3.3	
5	3303 - Mixed Low Density Trees	255.6	
11	123 - Other High Intensity Urban	1.5	Railroad grade.
13	3303 - Mixed Low Density Trees	34.1	
21	6229 - Mixed lowland shrub	9.6	
26	11 - Low Intensity Urban	3.2	LS&I railroad grade and right of way.

**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.

Data updated before 2:00 PM

Stand	SCA Type	SCA Name	Acres	Comments
24	Unique Site - SCA	32276024	7.8	SCA = Lowland conifer wetland that is part of a riparian zone.
30	Unique Site - SCA	32276030	9.9	SCA = Riparian zone.
21	Unique Site - SCA	NF_32276021	9.6	SCA = Feeder stream to the Escanaba River and associated riparian zone.



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.

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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.