



**Gwinn Forest Management Unit
Compartment Review Presentation
Compartment #206 Entry Year: 2012
Compartment Acreage: 841 County: Marquette**

Revision Date: 7/27/2010

Stand Examiner: Dean Wilson

Legal Description: T50N-R28W, Sections 16-18, 20.

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

Management Goals: Forest production.

Soil and Topography: Level glacial outwash plains.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Primarily bounded by industrial and non-industrial forest ownerships.

Unique, Natural Features: 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: Yellowdog Outwash Plains. Strive to mimic natural fire disturbance in jack-pine habitat. Oak cover types tend to regenerate well in this area. Strive to maintain or increase diversity and hard mast production in areas with higher quality soils, especially those containing oak for wildlife.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and minor amounts of coarse-textured glacial till. The glacial drift thickness varies between 10 and 50 feet and insufficient data to determine the thickness. The Precambrian Michigamme Formation subcrops below the Glacial Drift. There is not a current economic use for the Michigamme. Gravel pits are not located in the area, and potential appears to be limited. A silver prospect is located three miles to the south. This compartment and nearby State land are leased for metallic exploration. Kennecott Eagle proposed mine is located just to the west of this Compartment. There is no economic oil and gas production in the UP.

Vehicle Access: Good.

Survey Needs: N\A

Recreational Facilities and Opportunities: This compartment contains a maintained snowmobile trail. Otherwise, this area is primarily used for passive recreation.

Fire Protection: Fire risk is high in the jack pine forest type.

Additional Compartment Information:

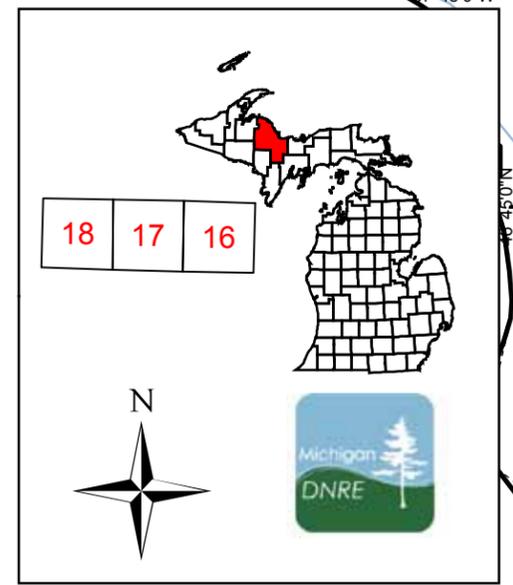
- **The following reports from the Inventory are attached:**
 - ◆ **Total Acres by Cover Type and Age Class**
 - ◆ **Proposed Treatment Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
 - ◆ **Stand Details (Forested and Nonforested)**
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

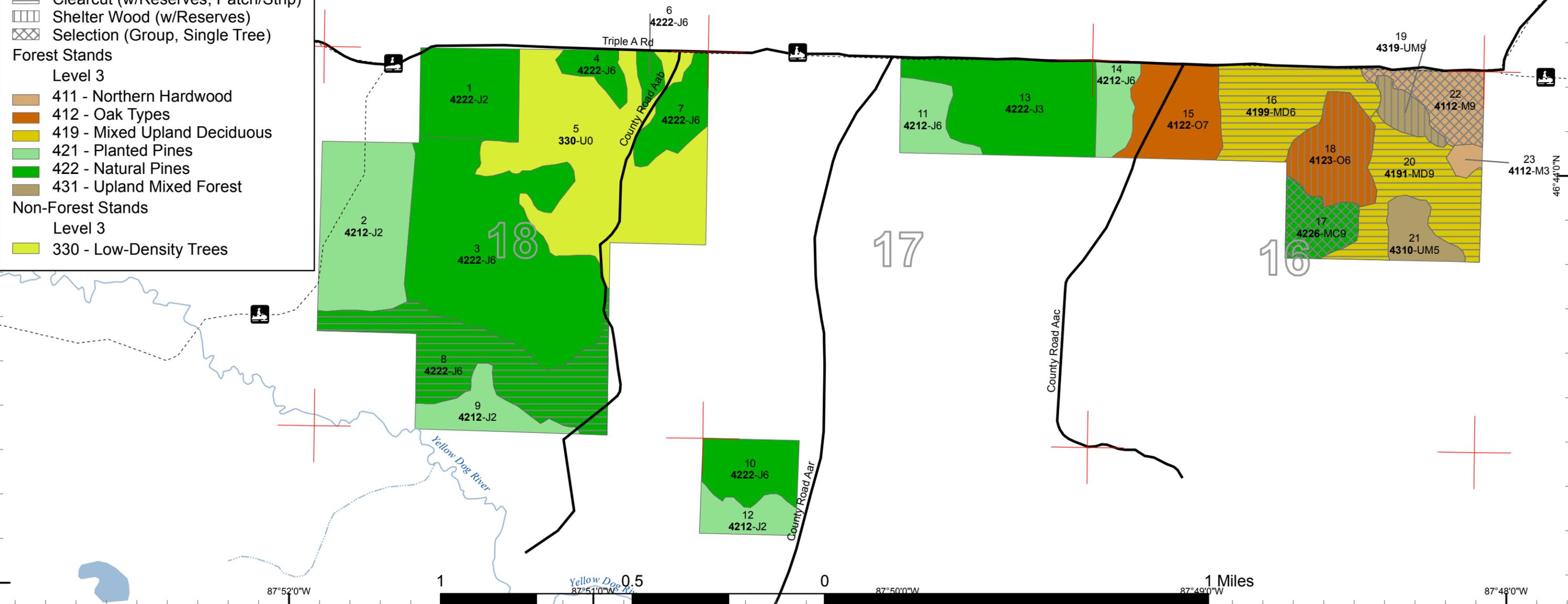
Cover Type & Treatment Map

Compartment 206
 T50N, R28W, Sec. 16, 17, 18
 County: Marquette
 Unit: Gwinn
 YOE: 2012
 Acres: 841 GIS Calculated
 Stand Examiner: Dean Wilson
 Map Revised: 8/30/2010
 Map Phase: Pre-Review

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



- Legend**
- Miris Corners
 - Paved Roads
 - Trails
 - Snowmobile Trails
- Treatments**
- Clearcut (w/Reserves, Patch/Strip)
 - Shelter Wood (w/Reserves)
 - Selection (Group, Single Tree)
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 412 - Oak Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 431 - Upland Mixed Forest
- Non-Forest Stands**
- Level 3
- 330 - Low-Density Trees



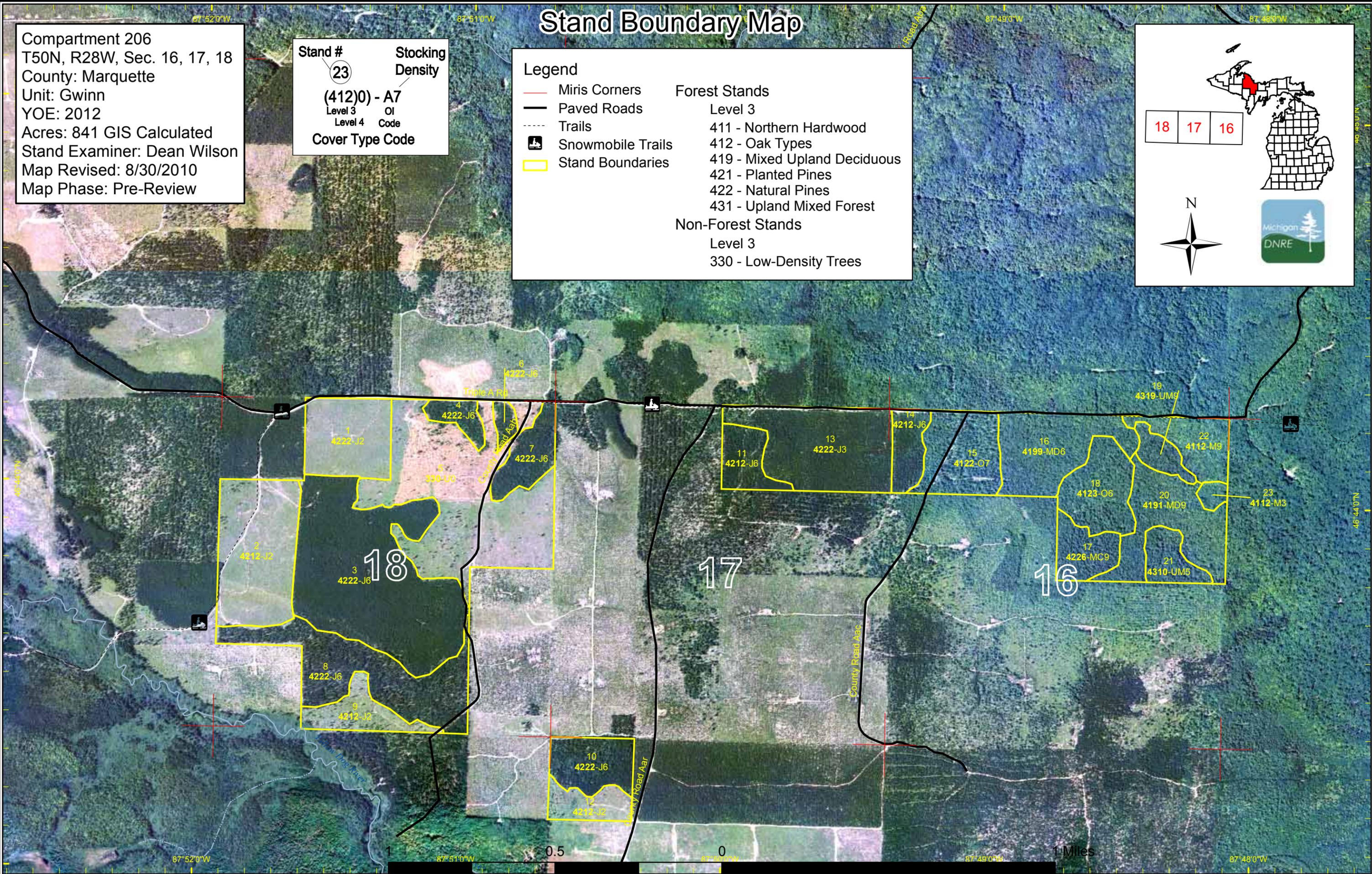
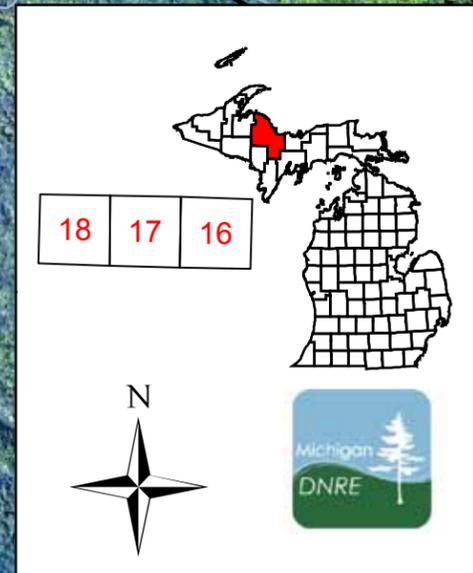
Stand Boundary Map

Compartment 206
 T50N, R28W, Sec. 16, 17, 18
 County: Marquette
 Unit: Gwinn
 YOE: 2012
 Acres: 841 GIS Calculated
 Stand Examiner: Dean Wilson
 Map Revised: 8/30/2010
 Map Phase: Pre-Review

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

Legend

- Miris Corners
 - Paved Roads
 - Trails
 - Snowmobile Trails
 - Stand Boundaries
-
- Forest Stands**
- Level 3
 - 411 - Northern Hardwood
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- Non-Forest Stands**
- Level 3
 - 330 - Low-Density Trees



Dedicated & Proposed Special Conservation Area Map

Compartment 206
 T50N, R28W, Sec. 16, 17, 18
 County: Marquette
 Unit: Gwinn
 YOE: 2012
 Acres: 841 GIS Calculated
 Stand Examiner: Dean Wilson
 Map Revised: 8/30/2010
 Map Phase: Pre-Review

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

- Legend**
- Miris Corners
 - Stand Boundaries
 - Dedicated Special Conservation Areas
 - Cold Water Streams
 - Wild & Scenic Rivers (USFS Lands)
 - Forest Stands
 - Level 3
 - 411 - Northern Hardwood
 - 412 - Oak Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 431 - Upland Mixed Forest
 - Non-Forest Stands
 - Level 3
 - 330 - Low-Density Trees

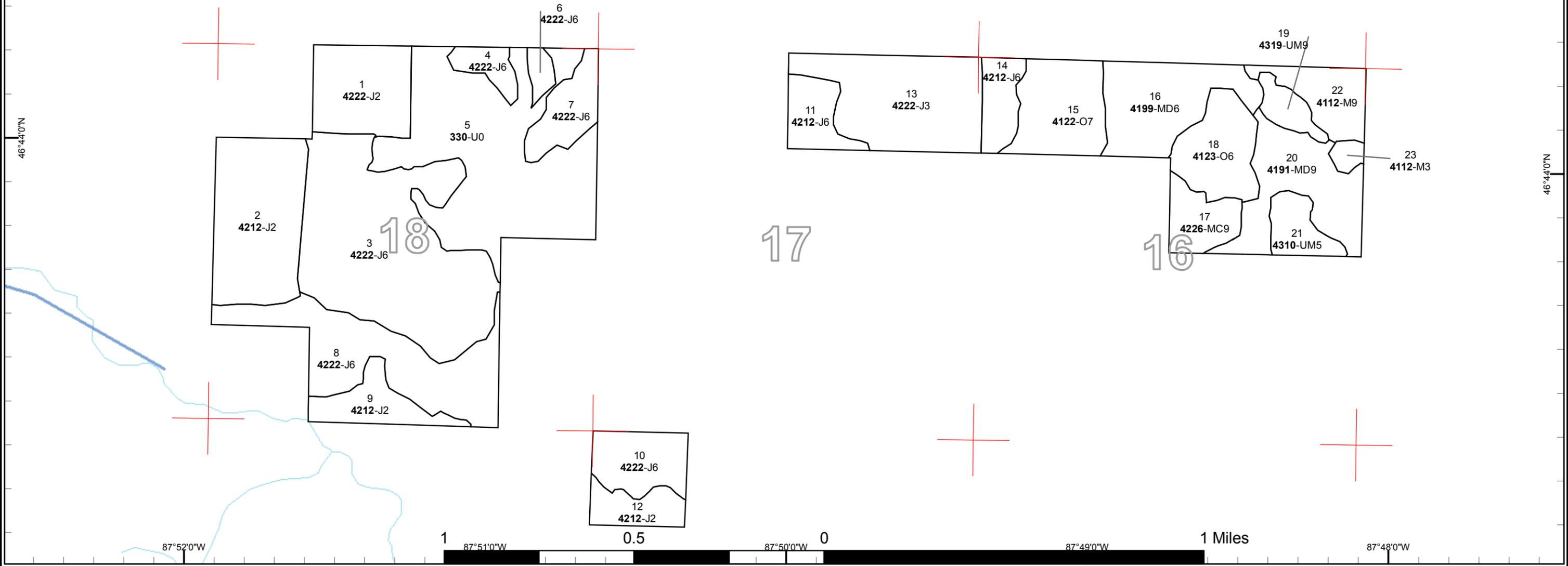
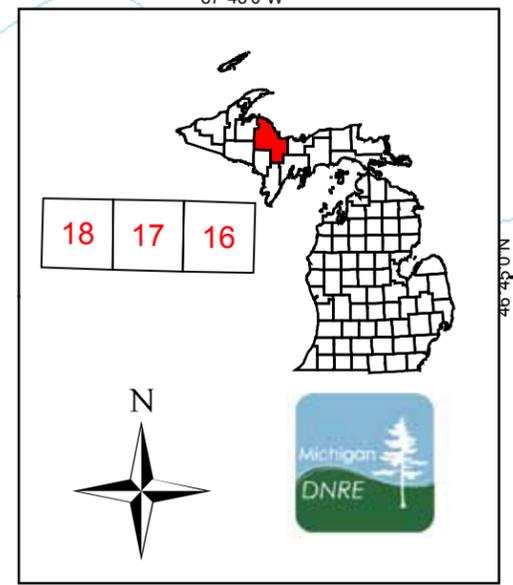


Table 1 – Total Acres by Cover Type and Age Class

Data updated yesterday after 6:00 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
Jack Pine	0	0	148	89	187	0	0	0	68	0	0	0	0	0	0	492
Low-Density Trees	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	90	0	0	0	0	90
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	18
Northern Hardwood	0	0	0	0	0	4	0	0	0	0	22	0	0	0	0	26
Oak	0	0	0	0	0	0	0	0	0	0	68	0	0	0	0	68
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	24
Total	123	0	148	89	187	4	0	0	68	0	222	0	0	0	0	841



Table 2 – Proposed Treatment Summaries

Data updated yesterday after 6:00 PM

Gwinn Mgt. Unit
Year of Entry 2012

Compartment 206
Total Compartment Acres: 841.0

Acres by Treatment Type

Commercial Harvest - 239	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	68	0	0	0	0	0	68
Mixed Upland Deciduous	90	0	0	0	0	0	90
Natural Mixed Pines	0	18	0	0	0	0	18
Northern Hardwood	0	22	0	0	0	0	22
Oak	0	0	0	31	0	0	31
Upland Mixed Forest	0	0	0	10	0	0	10
Total	158	40	0	41	0	0	239

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Data updated yesterday after 6:00 PM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
8 32206008-Cut	67.7	42220 - Natural Jack Pine	High Density Pole	75	Harvest	Clearcut with Reserves	Natural Jack Pine	Cmpt. Review Proposal

Prescription Final harvest. Retain red and white pine, and spruce less than 6 inched at the stump.

Specs:

Other

Comments:

Next Steps: Schedule post harvest cultural treatment. Trench-plant 2-0 jack pine seedlings in the fall.

16 32206016-Cut	45.2	4199 - Other Mixed Upland Deciduous	High Density Pole	90	Harvest	Clearcut with Reserves	R.Maple, Conifer	Cmpt. Review Proposal
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Prescription Harvest all maple, white birch, aspen, spruce, balsam fir, and jack pine. Retain all oak, hemlock, red pine and white pine.

Specs:

Other

There may be other non-retention species that could be included in the harvest.

Comments:

Next Steps: Check next entry for regeneration.

17 32206017-Cut	18.1	42260 - Natural Pine, Mixed Deciduous	High Density Log	98	Harvest	Single Tree Selection	Natural White Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Mark trees to be harvested with orange paint.

Specs:

Other

Do not mark any oak or hemlock.

Comments:

Next

Steps:

18 32206018-Cut	31.3	4123 - Red Oak	High Density Pole	90	Harvest	Shelterwood	Red Oak	Cmpt. Review Proposal
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Prescription Remove all trees that are not oak, hemlock, red pine, and white pine.

Specs:

Other

May want to mark some designated species for retention.

Comments:

Next Steps: Check regeneration next entry.

19 32206019-Cut	9.8	4319 - Mixed Upland Forest	High Density Log	98	Harvest	Shelterwood	Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Remove all maple, white birch, aspen, spruce, balsam fir, and jack pine. Mark with orange paint the red and white pine to achieve a desired

Specs: stocking level.

Other

Retain all oak and hemlock.

Comments:

Next

Steps:

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Data updated yesterday after 6:00 PM

	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
20	32206020-Cut	45.0	4191 - Mixed Upland Deciduous with Conifer	High Density Log	90	Harvest	Clearcut with Reserves	Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal

Prescription Harvest all maple, white birch, aspen, spruce, balsam fir, and jack pine. Retain all oak, hemlock, red pine and white pine.

Specs:

Other Red and white pine that are defective may be marked for harvest.

Comments:

Next

Steps:

22	32206022-Cut	22.0	4112 - Maple, Beech, Cherry Association	High Density Log	98	Harvest	Single Tree Selection	Sugar Maple Association	Cmpt. Review Proposal
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Prescription Mark trees to be harvested with orange paint. Retain all oak and hemlock.

Specs:

Other Where possible favor non-maple species for retention.

Comments:

Next

Steps:

**Total Treatment
Acreage Proposed: 239.0**

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Data updated yesterday after 6:00 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 yesterday after 6:00 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

Compartment: 206

Data updated yesterday after 6:00 PM

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42220 - Natural Jack Pine	Medium Density	38.7	13		Harvested in 1995: TS#14-92. Trenched and seeded but attempt at artificial regeneration failed. Stand is semi-open with an estimated 300 to 400 trees/a. Almost all trees are natural regeneration.
2	42120 - Planted Jack Pine	Medium Density	64.9	13		Harvested in 1995: TS#14-92. Trenched and direct seeded-did not take well.
3	42220 - Natural Jack Pine	High Density Pole	130.1	31	51-80	Harvested in 1978: TS#13-76A. Scarified and naturally regenerated. Well stocked small pole/large sapling stand.
4	42220 - Natural Jack Pine	High Density Pole	9.4	19	51-80	Harvested in 1976: TS#27-73A. Scarified and broadcast seeded in 1980. Small pole stand with a trace of aspen in overstory.
6	42220 - Natural Jack Pine	High Density Pole	4.9	29	1-50	Harvested in 1976: TS#27-73A. Scarified and broadcast seeded in 1980.
7	42220 - Natural Jack Pine	High Density Pole	19.5	29	1-50	Harvested in 1976: TS#27-73A. Scarified and broadcast seeded in 1980.
8	42220 - Natural Jack Pine	High Density Pole	67.7	75	81-110	Final harvest-trench-plant 2-0 jack pine seedlings in the fall.
9	42120 - Planted Jack Pine	Medium Density	20.3	14		Harvested in 1995: TS#19-92. Trenched and planted to red pine. Red pine failed but with naturally regenerated jack pine the stand is stocked. Spruce and red pine left as residual when cut.
10	42220 - Natural Jack Pine	High Density Pole	24.5	37		Harvested in 1971. Scarified and broadcast seeded in 1972.
11	42120 - Planted Jack Pine	High Density Pole	17.0	31	51-80	Burned in 1975. Machine planted in 1978. Mix of natural regeneration in stand.
12	42120 - Planted Jack Pine	Medium Density	15.1	16		Harvested in 1995: TS#19-92. Trenched and planted to red pine. Planted red pine failed. Jack pine and aspen natural regeneration make the stand stocked. A few red/white pine and spruce-fir trees left for retention.
13	42220 - Natural Jack Pine	High Density Sapling	64.9	29	1-50	Harvested in 1976: TS#27-73A. Scarified and broadcast seeded in 1980.
14	42121 - Planted Jack Pine, Mixed Deciduous	High Density Pole	15.0	31	51-80	
15	4122 - Oak, Pine	Low Density Log	36.6	98	1-50	Partially cut in 1996: TS#21-92-01. Two storied stand.
16	4199 - Other Mixed Upland Deciduous	High Density Pole	45.2	90	81-110	

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Gwinn Mgt. Unit

5 – Forested Stands

Compartment: 206

Data updated yesterday after 6:00 PM

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
17	42260 - Natural Pine, Mixed Deciduous	High Density Log	18.1	98	111-140	Harvested in 1966 using a 12 inch stump diameter. Some gaps in stand.
18	4123 - Red Oak	High Density Pole	31.3	90	81-110	
19	4319 - Mixed Upland Forest	High Density Log	9.8	98	111-140	
20	4191 - Mixed Upland Deciduous with Conifer	High Density Log	45.0	90	81-110	Very low quality hardwoods. White birch inclusion in the south side.
21	4310 - Pine, Oak Mix	Medium Density Pole	14.2	90	51-80	Harvested in 1966 using a 12 inch stump diameter. Poor quality stand.
22	4112 - Maple, Beech, Cherry Association	High Density Log	22.0	98	111-140	Ranging stocking and size classes. Low site productivity. Trace of white pine.
23	4112 - Maple, Beech, Cherry Association	High Density Sapling	3.9	43	1-50	Harvested in 1966. Large sapling/small pole stand of poor quality hardwoods. Small pockets and scattered individuals of mature trees mostly hemlock. Trace of red oak.



Stand	Cover Type	Acres	Gen Cmts:
5	3302 - Low Density Conifer Trees	122.9	



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 yesterday after 6:00 PM

Stand	SCA Type	SCA Name	Acres	Comments
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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.

Data updated yesterday after 6:00 PM

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.
SCA	Wild and Scenic Rivers	Wild and Scenic Rivers are established under authority of the National Wild and Scenic Rivers Act, Public Law 90-542, as amended. Each Wild and Scenic River has a river specific Federal management plan, and State agencies may enter into written cooperative agreements with the administering Federal agency for the management of Wild and Scenic Rivers that are upon State-owned lands. There are 18 miles of Federal designated Wild and Scenic Rivers that are located within the State Forest.