



**Gwinn Forest Management Unit
Compartment Review Presentation
Compartment #296 Entry Year: 2012
Compartment Acreage: 847 County: Alger**

Revision Date: July 27, 2010

Stand Examiner: Dean Wilson

Legal Description: T47N-R22W, sections 7, 18, 19, 30

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

Management Goals: Forest production.

Soil and Topography: Soils are loamy sands to sandy loams or organic. Topography ranges from level to slightly hilly.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Surrounding this compartment are State lands and industrial and non-industrial private ownerships.

Unique, Natural Features: N/A

Archeological, Historical, and Cultural Features: N/A

Special Management Designations or Considerations: N/A

Watershed and Fisheries Considerations: N/A

Wildlife Habitat Considerations: Sand River Lake Plain. This compartment has a variety of cover-types consisting of hemlock, or upland hardwood stands with various ages of a hemlock component associated with it. Also this area has the potential to maintain or increase hemlock due to the high regeneration success rates associated in this area. This is significant for wildlife because it is estimated that hemlock has decreased over 97% from the WUP landscape from pre-settlement times.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of thin to discontinuous glacial till over bedrock. The glacial drift thickness varies between 10 and 50 feet. The Precambrian Jacobsville Sandstone subcrops below the glacial drift. There is not a current economic use for the Jacobsville, but it was previously used as a building stone. Gravel pits are located two miles to the east of the compartment, and potential appears to be good. This compartment has never been leased. There is no economic oil and gas production in the UP.

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

Survey Needs: N/A

Recreational Facilities and Opportunities: The North Country Trail runs through this compartment.

Fire Protection: Fire risk is low in this area.

Additional Compartment Information:

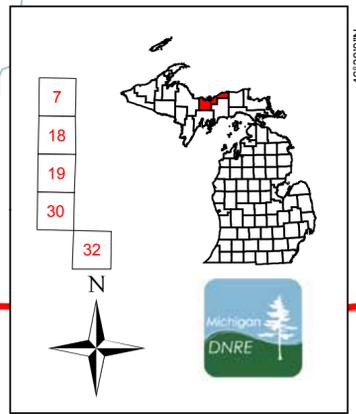
- **The following reports from the Inventory are attached:**
 - ◆ **Total Acres by Cover Type and Age Class**
 - ◆ **Proposed Treatment Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
 - ◆ **Stand Details (Forested and Nonforested)**
 - ◆ **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 296
 T47N, R22W, Sec. 7, 18, 19, 30, 32
 County: Alger
 Unit: Gwinn
 YOE: 2012
 Acres: 847 GIS Calculated
 Stand Examiner: Dean Wilson
 Map Revised: 8/30/2010
 Map Phase: Pre-Review

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



Legend

- Miris Corners
- Highway
- Paved Roads
- Poor Dirt Roads
- Intermittent Stream/Drain
- Stream
- Trails
- ORV Trails
- Motorcycle Trails
- Snowmobile Trails
- Hiking Trails
- State Highway

Treatments

- Shelter Wood (w/Reserves)
- Selection (Group, Single Tree)

Forest Stands

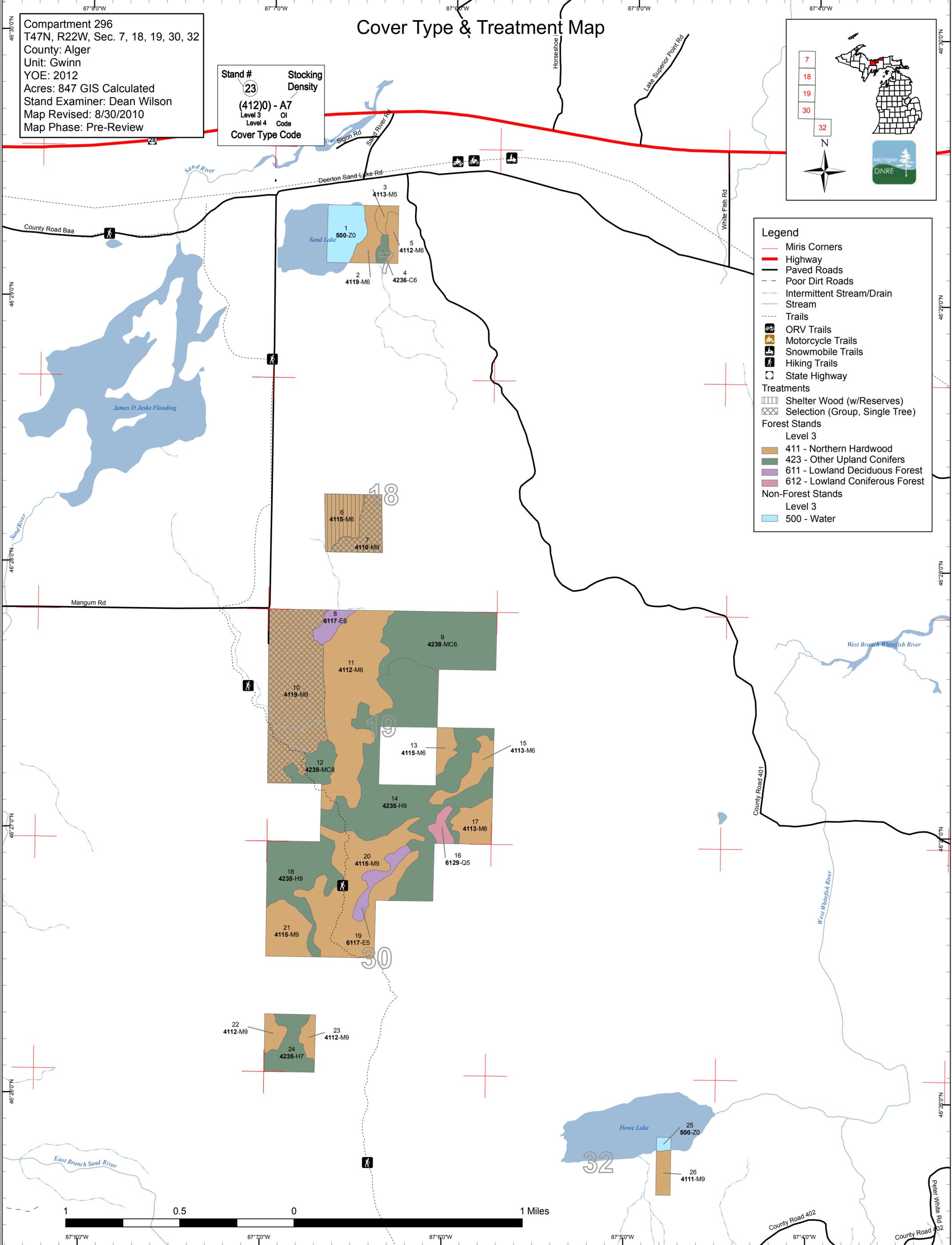
Level 3

- 411 - Northern Hardwood
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

- 500 - Water



87°8'0"W 87°7'0"W 87°6'0"W 87°5'0"W 87°4'0"W

Compartment 296
 T47N, R22W, Sec. 7, 18, 19, 30, 32
 County: Alger
 Unit: Gwinn
 YOE: 2012
 Acres: 847 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

Stand Boundary Map

Legend

- Miris Corners
- Highway
- Paved Roads
- Poor Dirt Roads
- Trails
- ORV Trails
- Motorcycle Trails
- Snowmobile Trails
- Hiking Trails
- State Highway
- Stand Boundaries

Forest Stands

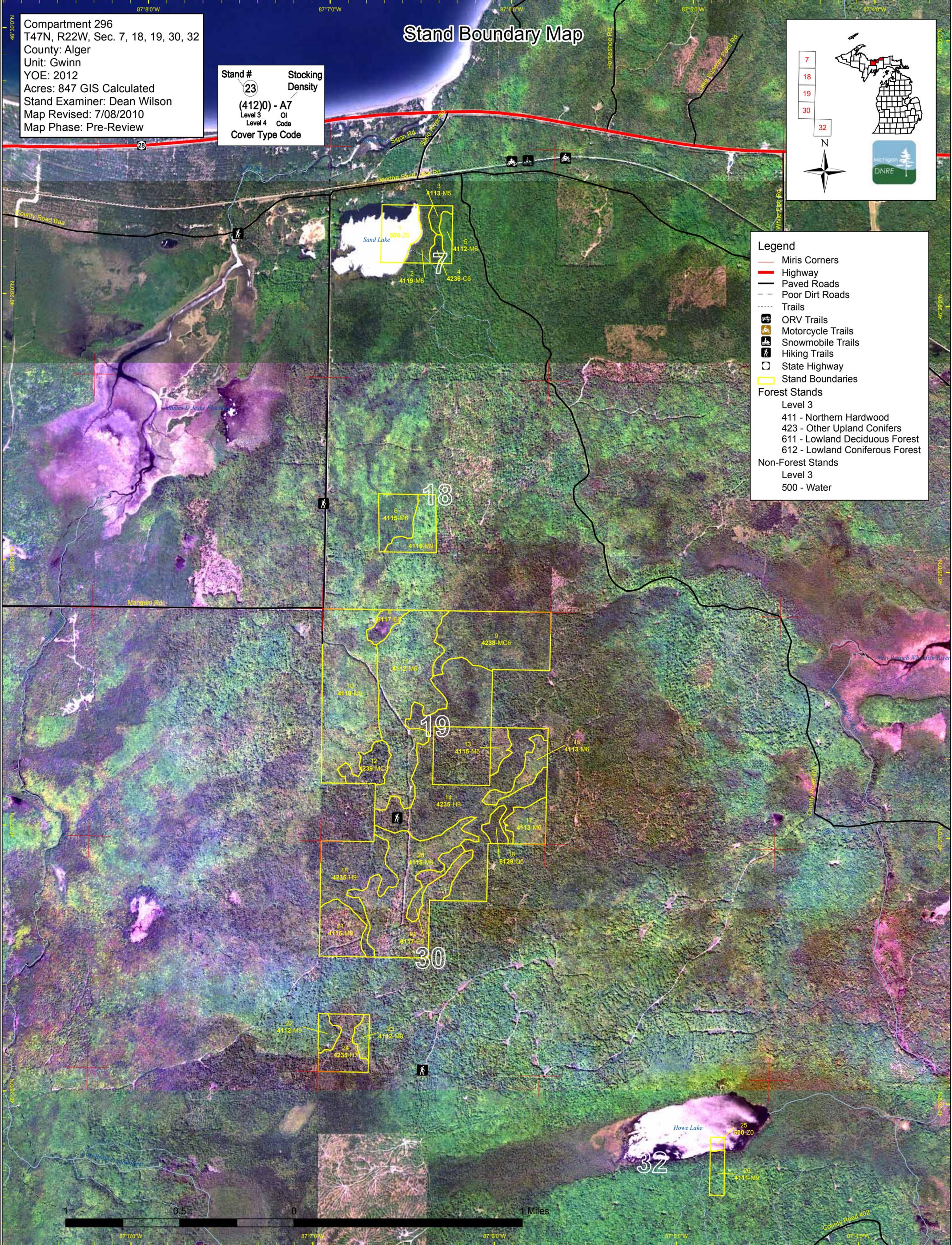
Level 3

- 411 - Northern Hardwood
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Non-Forest Stands

Level 3

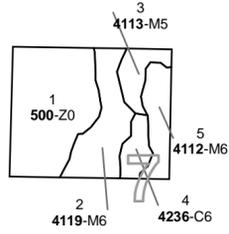
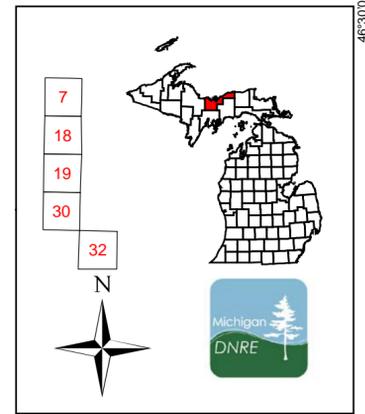
- 500 - Water



Dedicated & Proposed Special Conservation Area Map

Compartment 296
 T47N, R22W, Sec. 7, 18, 19, 30, 32
 County: Alger
 Unit: Gwinn
 YOE: 2012
 Acres: 847 GIS Calculated
 Stand Examiner: Dean Wilson
 Map Revised: 7/08/2010
 Map Phase: Pre-Review

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



Legend

- Miris Corners
- Stand Boundaries
- Dedicated Special Conservation Areas
- Cold Water Streams
- Boat Access Sites

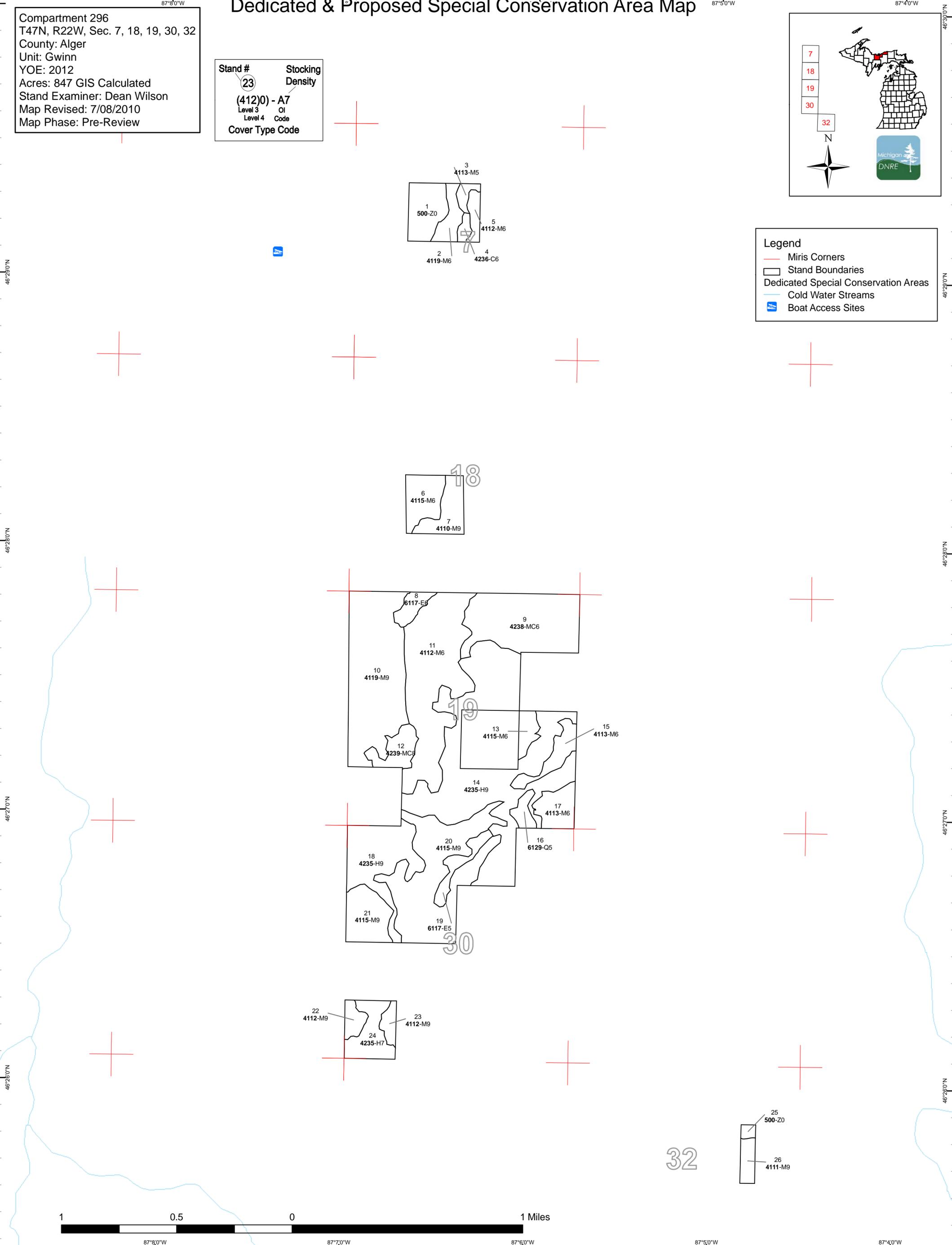
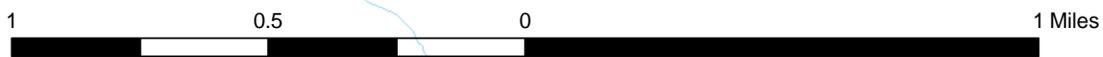
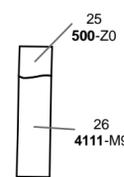
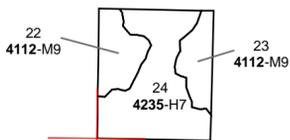
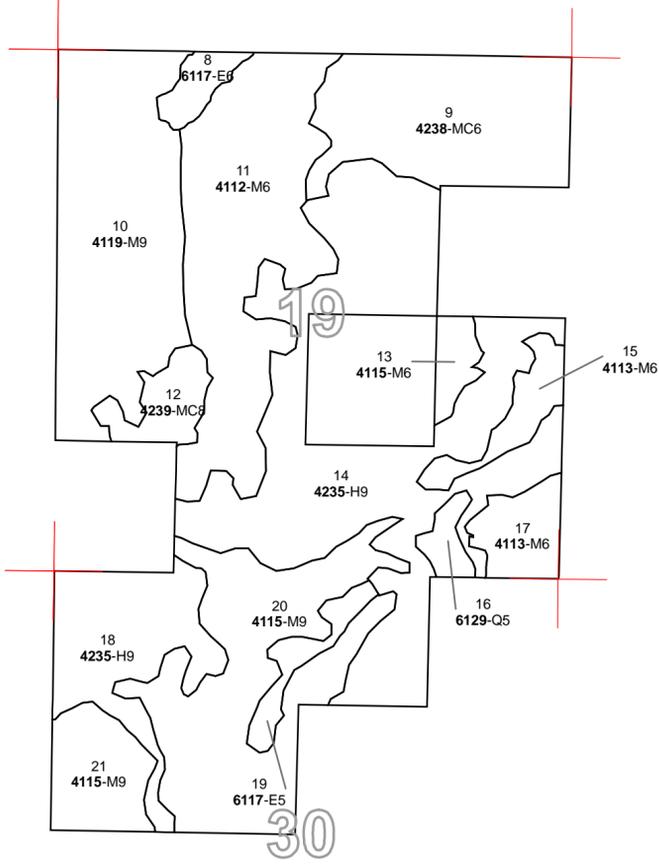
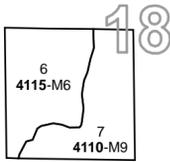


Table 1 – Total Acres by Cover Type and Age Class

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
Cedar	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	4
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	240	0	0	240
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	7
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	9	0	11	0	0	20
Northern Hardwood	0	0	0	0	0	0	7	0	0	0	37	125	284	8	0	460
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	75	0	15	91
Water	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Total	26	0	0	0	0	0	7	0	0	0	49	125	618	8	15	847



Table 2 – Proposed Treatment Summaries

Data updated before 2:00 PM

Gwinn Mgt. Unit
Year of Entry 2012

Compartment 296
Total Compartment Acres: 847.4

Acres by Treatment Type

Commercial Harvest - 146	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	125	0	21	0	0	146
Total	0	125	0	21	0	0	146

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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
10	32296010-Cut	105.8	4119 - Mixed Northern Hardwoods	High Density Log	100	Harvest	Single Tree Selection	Mixed Northern Hardwoods	Cmpt. Review Proposal

Prescription: Mark an individual tree selection to achieve a basal area of 70 to 90 square feet. Consider group selection in areas of low quality red maple. All Specs: beech, black cherry, hemlock, and yellow birch will be retained.

Other Comments: Wet drains and conifer pockets can be excluded from the timber marking.

Next Steps: Check next entry for treatment needs.

**Total Treatment
Acreage Proposed: 105.8**

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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
6 32296006-Cut	20.7	4115 - Y.Birch, Hemlock NH	High Density Pole	90	Harvest	Shelter Wood with Reserves	Y.Birch, Hemlock NH	Cmpt. Review Proposal

Prescription Specs: Partially cut all maple with a stump diameter less than 16 inches, all ash, and all spruce and balsam fir. Retain all hemlock, cedar, and yellow birch.

Other Comment: No beech or black cherry were observed but if found should be included in the retention species.

Next Steps: Check regeneration and future treatment needs next entry.

Limiting Factor and No Treatment Reason 2A: Adjacent landowner denies access
Have to access this tract across private land. It is presumed permission can be gained.

7 32296007-Cut	19.4	4110 - Sugar Maple Association	High Density Log	100	Harvest	Single Tree Selection	Sugar Maple Association	Cmpt. Review Proposal
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Prescription Specs: Mark an individual tree selection to achieve a basal area of 70 to 90 square feet. Hemlock, yellow birch, basswood, and black cherry will be favored for retention.

Other Comment: Retain any beech if observed. Maintain the conifer component in the stand.

Next Steps: Check next entry for additional treatment needs.

Limiting Factor and No Treatment Reason 2A: Adjacent landowner denies access
Access to this tract is across private land. It is presumed permission can be gained.

**Total Treatment
Acreage Proposed: 40.1**

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

Compartment: 296

Data updated before 2:00 PM

Year of Entry: 2012



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4119 - Mixed Northern Hardwoods	High Density Pole	11.4	90	81-110	
3	4113 - R.Maple, Conifer	Medium Density Pole	4.4	90	81-110	Contains lowland pockets (areas of trapped drainage).
4	42360 - Upland Cedar	High Density Pole	3.5	90	111-140	Contains some areas of poorer drainage.
5	4112 - Maple, Beech, Cherry Association	High Density Pole	6.7	50	51-80	
6	4115 - Y.Birch, Hemlock NH	High Density Pole	20.7	90	111-140	Contains some wet drains.
7	4110 - Sugar Maple Association	High Density Log	19.4	100	111-140	Survey needed have have to cross private land. North, west, and east lines established by the Forest Land Group.
8	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	8.7	90	51-80	
9	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	75.3	110	81-110	Stand has sawlog inclusions. Contains lowland conifer inclusions in wet drains and vernal areas.
10	4119 - Mixed Northern Hardwoods	High Density Log	105.8	100	111-140	Contains some wet drains when water is present.
11	4112 - Maple, Beech, Cherry Association	High Density Pole	105.7	110	81-110	Harvested in 1995 to 1997: TS#25-92. Has sawlog inclusions and other species present. Contains wet drains and vernal areas.
12	42390 - Mixed Non-Pine Upland Conifers	Medium Density Log	15.4	Uneven Age	81-110	Harvested from 1995 to 1997: TS#25-92. Stand contains wet drains and vernal areas. The North Country Trail for hiking passes through the south end of this stand.
13	4115 - Y.Birch, Hemlock NH	High Density Pole	8.7	110	81-110	Low quality red maple. Harvest next entry with stands 15, 16, 17.
14	42350 - Upland Hemlock	High Density Log	167.8	110	111-140	Partially harvest this stand next entry.
15	4113 - R.Maple, Conifer	High Density Pole	14.6	110	111-140	Low quality red maple. Harvest next entry with stands 13, 16, 17.
16	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	6.8	110	51-80	Harvest this stand with stands 13, 15, 17 next entry.
17	4113 - R.Maple, Conifer	High Density Pole	17.3	110	111-140	Low quality red maple stand. Harvest next entry with stands 13, 15, 16. Few other species present.

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Gwinn Mgt. Unit

5 – Forested Stands

Compartment: 296

Data updated before 2:00 PM

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	42350 - Upland Hemlock	High Density Log	50.6	110	111-140	Contains some wet drains and vernal areas. Some larger canopy gaps occur probably caused by past windthrow events.
19	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	11.3	110	51-80	Stand is flooded by beaver...timber is dying.
20	4115 - Y.Birch, Hemlock NH	High Density Log	97.6	110	81-110	Harvested in 2005: TS#123-02-01. Contains inclusions of low quality red maple pole stands (mostly on the north side) that were treated. The North Country Trail runs through this area.
21	4115 - Y.Birch, Hemlock NH	High Density Log	26.5	110	81-110	Harvested in 2005: TS#123-02-01.
22	4112 - Maple, Beech, Cherry Association	High Density Log	7.4	110	81-110	Harvested in 2001: TS#15-97-01.
23	4112 - Maple, Beech, Cherry Association	High Density Log	6.2	110	51-80	Harvested in 2001: TS#15-97-01.
24	42350 - Upland Hemlock	Low Density Log	21.8	110	1-50	Harvested in 2000: TS#15-97-01. Hardwoods were partially cut creating a 2 storied stand. Some small lowland pockets occur.
26	4111 - S.Maple, Hard Mast Association	High Density Log	7.8	150	51-80	Cut hard 20 to 30 years ago. There is a band of lowland conifers along the lake shore, and a hemlock inclusion on the south side.



Stand	Cover Type	Acres	Gen Cmts:
1	50 - Water	23.7	Sand Lake.
25	50 - Water	2.3	Howe 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.

Data updated before 2:00 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 before 2:00 PM

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
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