



**Gwinn Forest Management Unit  
Compartment Review Presentation  
Compartment 262      Entry Year: 2014  
Compartment Acreage: 1,701      County: Marquette**

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**Revision Date:** 8/20/2012

**Stand Examiner:** Ben Travis

**Legal Description:** T45N R27W, Sec. 26, 34 and 35

**RMU (if applicable):** Chain Lakes Moraine Management Area

**Management Goals:** Planning will focus on timber management, fisheries management and wildlife habitat management. Public access, forest roads, forest regeneration, forest health, forest fire management, forest recreation, stream crossings, water quality and any resource damage are critical assessments considered during the forest mapping and inventory process. Overall management strives to provide for a diverse, healthy and productive forest through planning and implementation of sustainable, proper forest treatments.

**Soil and Topography:** Terrain ranges from level swamps and tag alder drainages to rolling or hilly uplands. Major soil series are: Pence fine sandy loam, Karlin sandy loam, Saynor-Rubicon complex, Greenwood and Dawson soils, Rubicon sand, Alcona loamy very fine sand, Rousseau fine sand, Shag silt-loam, Spear very fine sandy loam, Champion-Dishnow complex, Rousseau-Ocqueoc fine sand, Paquin sand, Carbondale and Tawas soils, Crosswell-Deford complex and Rubicon-Keweenaw complex.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Compartment is bordered by small private parcels to the northeast and state lands to northwest. State land borders compartment to the west. Dickinson County line runs along south side of compartment. A mix of state and small private parcels adjoin the compartment to the south. State land and small private parcels lie along the east edge of compartment. Camps are located on many of the private parcels. The private lands are generally used for hunting and lake recreation, with some timber production occurring.

**Unique, Natural Features:** Kate's Lake and Bryan Creek with various tributaries are within compartment. Retired ELF corridor passes through Section 25.

**Archeological, Historical, and Cultural Features:** Rich Conifer swamp found in southeast portion of Section 35, and is associated with Bryan Creek (Kate's Lake, BC-ranked).

**Special Management Designations or Considerations:** A special conservation area designates a riparian and wetland zone around Bryan Creek. Special conservation areas are designated around Kate's Lake and another un-named lake.

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:** Featured species include black bear, gray jay, northern goshawk, pileated woodpecker and red crossbill.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of coarse-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Precambrian

Archean Granite/Gneiss subcrops below the glacial drift. This rock could be used as dimension stone. Gravel pits are located two miles to the west and potential should be good. Abandoned iron mines are located nine miles to the east. Section 35 was previously leased for metallic exploration. There is no economic oil and gas production in the UP

**Vehicle Access:** Charlie Lakes Road, Bryan Creek Road and Kate's Grade are the primary access routes for this compartment. A fairly extensive DNR forest road network provides entry to many areas of the compartment. The south portion of Section 35 lacks good access due to swamps and creeks.

**Survey Needs:** Two new survey monuments are needed.

**Recreational Facilities and Opportunities:** There are no developed recreational facilities within the compartment. Hunting, fishing, berry picking, mushroom picking, off-road vehicle usage and snowmobiling are important forest uses.

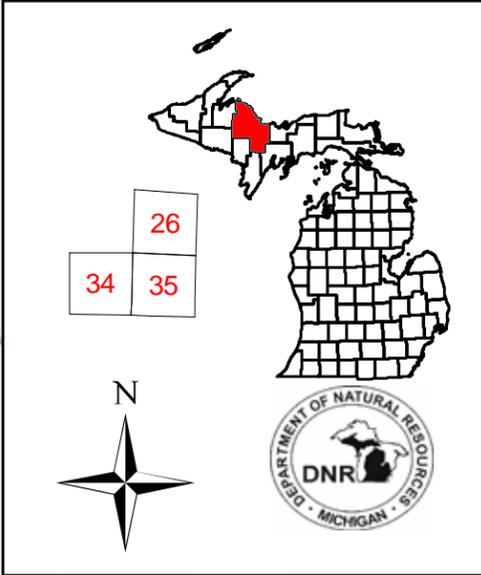
**Fire Protection:** This compartment is contained within the "581 Zone Dispatch Area" which provides for a pre-planned dispatch of DNR fire fighting equipment depending on expected forest fire behavior. Areas of jack pine and red pine with numerous dwellings have warranted this designation.

**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: 262  
 T45N R27W Sec. 26, 34, 35  
 County: Marquette  
 Unit: Gwinn  
 YOE: 2014  
 Acres: 1,701 GIS Calculated  
 Examiner: Ben Travis  
 Map Revised: 08/28/2012  
 Map Phase: Pre-Review



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

### Legend

- ◆ Survey Grade
- ⊕ 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
- ⊗ Gate
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

### Treatments

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

### Forest Stands

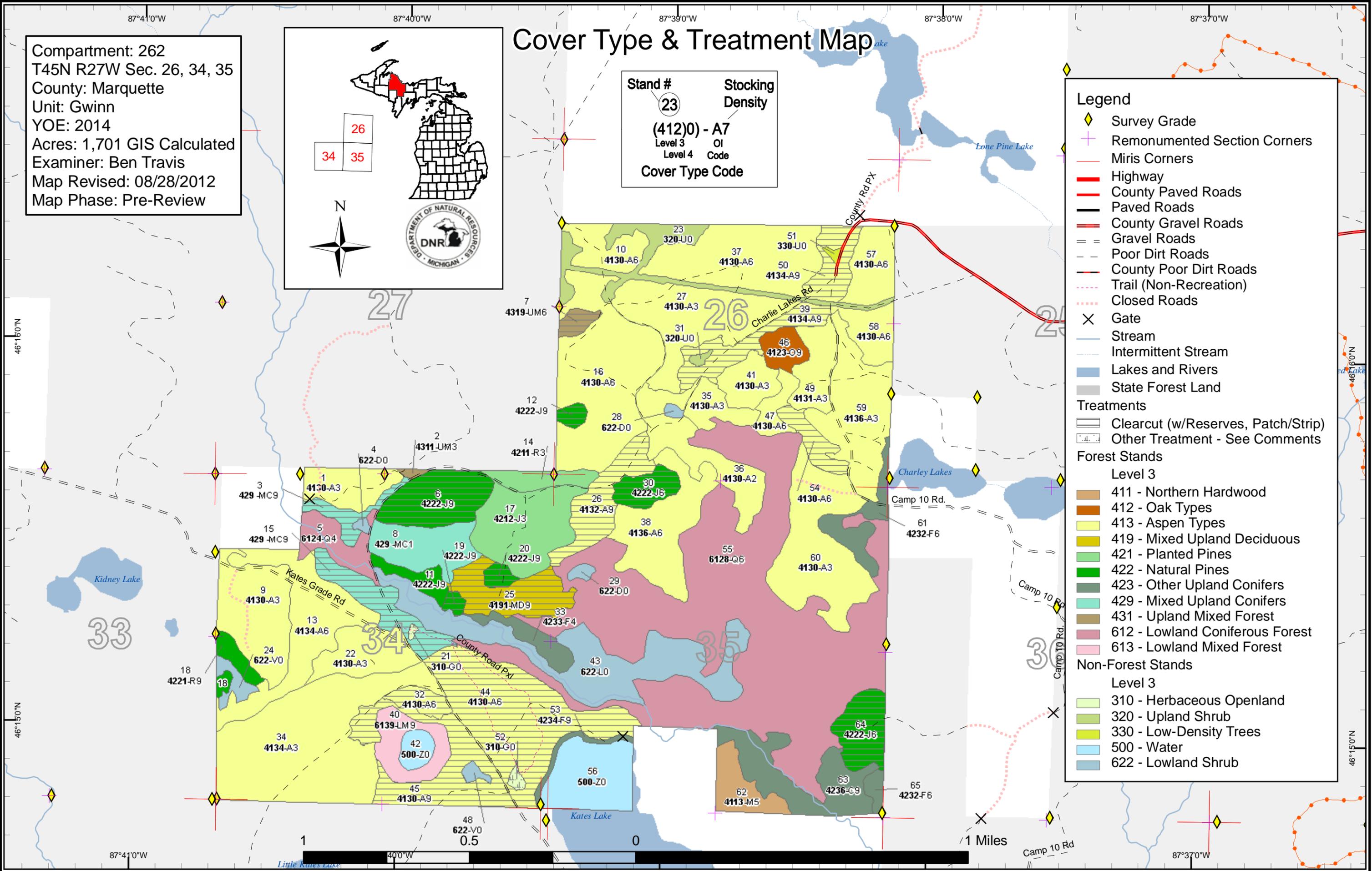
**Level 3**

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

**Non-Forest Stands**

**Level 3**

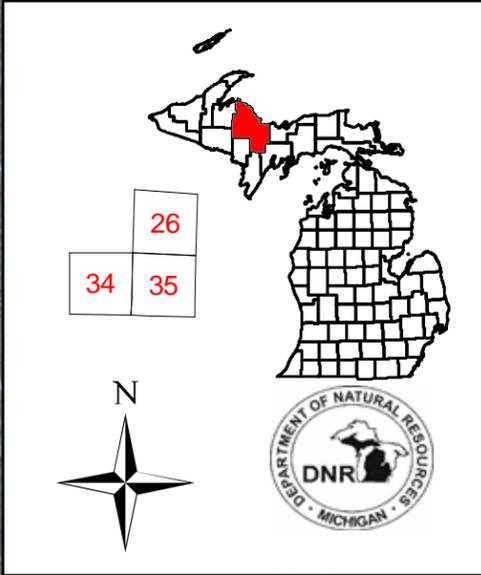
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub



1 0 1 Miles

# Stand Boundary Map

Compartment: 262  
 T45N R27W Sec. 26, 34, 35  
 County: Marquette  
 Unit: Gwinn  
 YOE: 2014  
 Acres: 1,701 GIS Calculated  
 Examiner: Ben Travis  
 Map Revised: 04/26/2012  
 Map Phase: Pre-Review



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

### Legend

- ◆ Survey Grade
- + 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
- X Gate
- Stream
- Intermittent Stream
- Pipe
- ⊕ Power
- Stand Boundaries

### Forest Stands

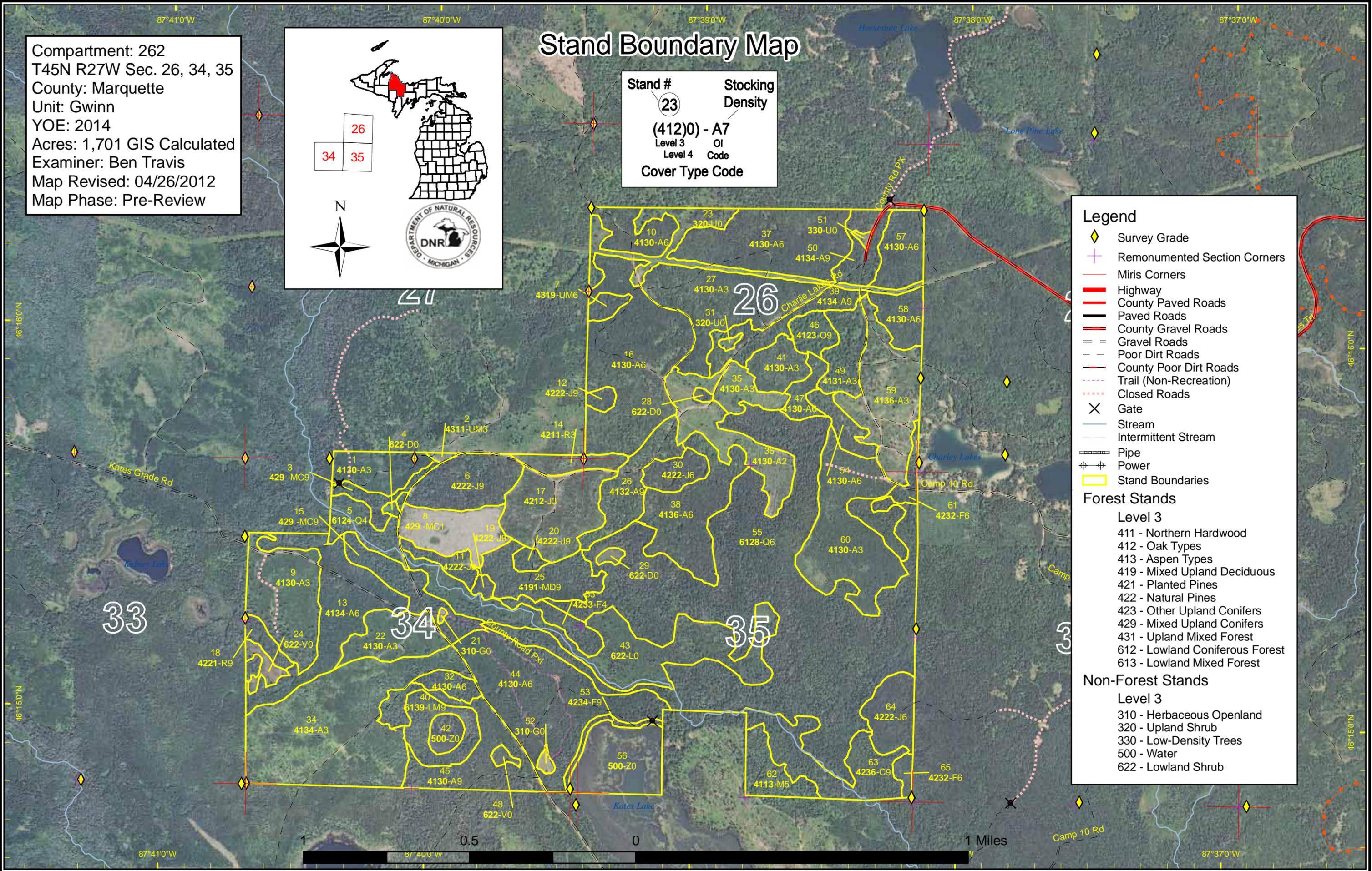
**Level 3**

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

### Non-Forest Stands

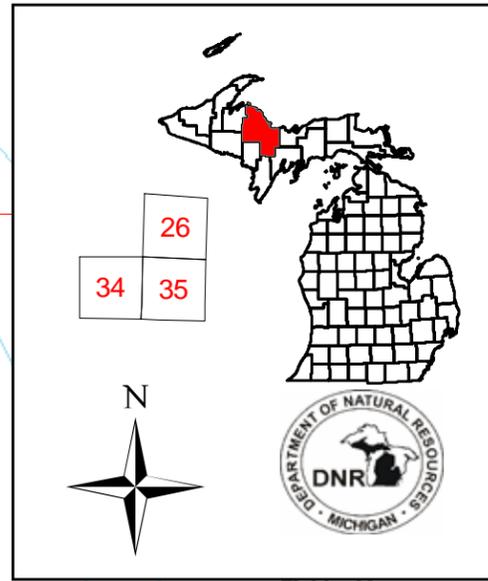
**Level 3**

- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub



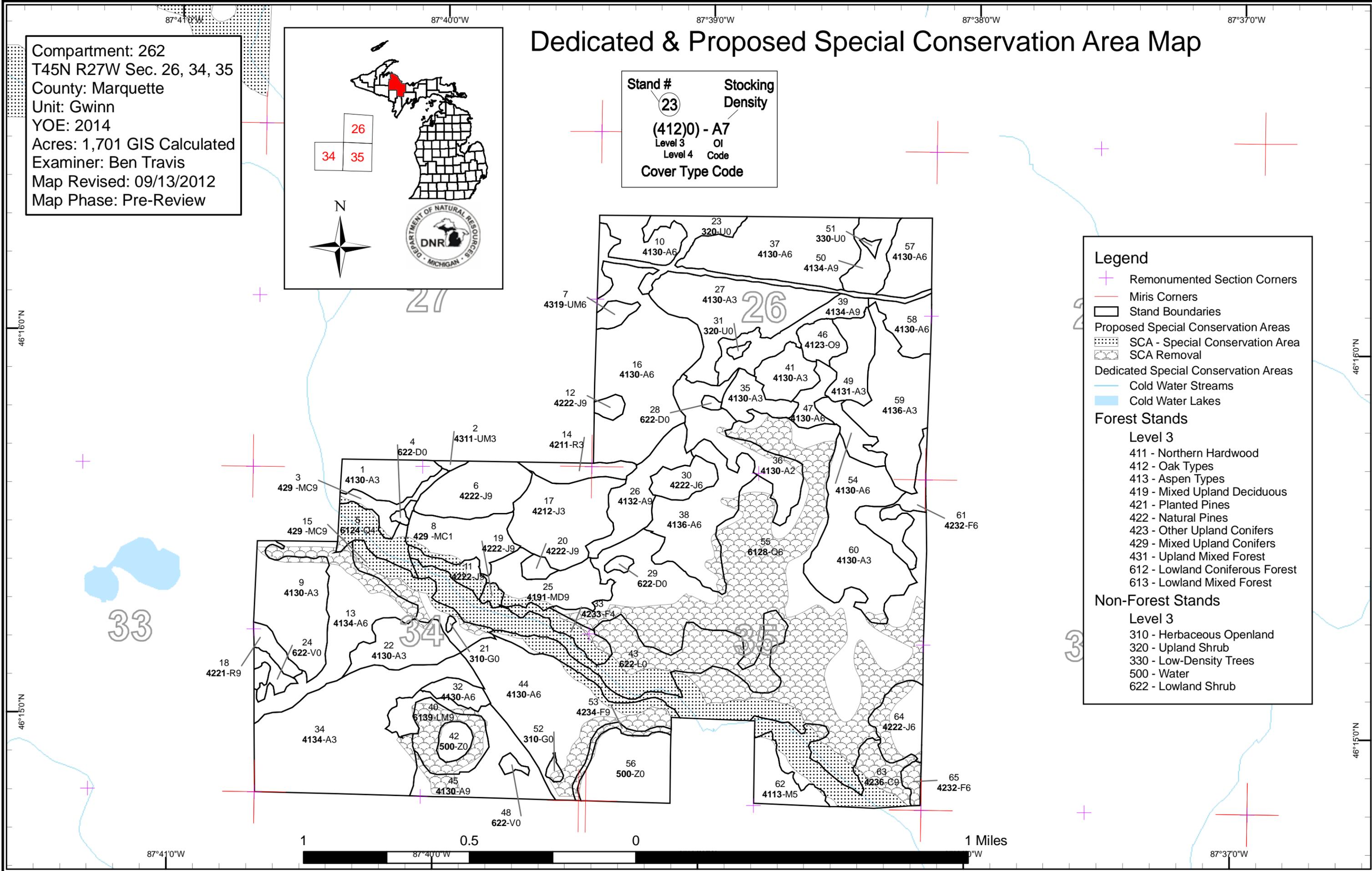
# Dedicated & Proposed Special Conservation Area Map

Compartment: 262  
 T45N R27W Sec. 26, 34, 35  
 County: Marquette  
 Unit: Gwinn  
 YOE: 2014  
 Acres: 1,701 GIS Calculated  
 Examiner: Ben Travis  
 Map Revised: 09/13/2012  
 Map Phase: Pre-Review



**Stand #**  
 23  
**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 - Special Conservation Area
    - ▩ SCA Removal
  - Dedicated Special Conservation Areas
    - Cold Water Streams
    - Cold Water Lakes
  - Forest Stands**
    - Level 3**
    - 411 - Northern Hardwood
    - 412 - Oak Types
    - 413 - Aspen Types
    - 419 - Mixed Upland Deciduous
    - 421 - Planted Pines
    - 422 - Natural Pines
    - 423 - Other Upland Conifers
    - 429 - Mixed Upland Conifers
    - 431 - Upland Mixed Forest
    - 612 - Lowland Coniferous Forest
    - 613 - Lowland Mixed Forest
  - Non-Forest Stands**
    - Level 3**
    - 310 - Herbaceous Openland
    - 320 - Upland Shrub
    - 330 - Low-Density Trees
    - 500 - Water
    - 622 - Lowland Shrub



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



	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	155	198	51	245	129	50	25	15	27	0	0	0	0	0	896
Bog	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	36	0	36
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Jack Pine	0	42	0	0	0	33	40	2	0	0	0	0	0	0	117
Low-Density Trees	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Conifers	0	0	0	0	0	0	0	0	16	300	0	0	0	0	316
Lowland Mixed Forest	0	0	0	0	0	0	0	18	0	0	0	0	0	0	18
Lowland Shrub	72	0	0	0	0	0	0	0	0	0	0	0	0	0	72
Mixed Upland Deciduous	0	0	0	0	0	0	26	0	0	0	0	0	0	0	26
Northern Hardwood	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16
Oak	0	0	0	0	0	0	0	0	0	9	0	0	0	0	9
Red Pine	0	10	0	0	0	0	0	0	0	0	0	8	0	0	18
Treed Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Conifers	26	0	0	0	0	0	30	0	0	0	0	0	0	0	56
Upland Mixed Forest	1	0	0	0	0	0	0	5	0	0	0	0	0	0	6
Upland Shrub	27	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Upland Spruce/Fir	0	0	0	0	0	0	4	29	0	0	0	0	0	0	33
Water	40	0	0	0	0	0	0	0	0	0	0	0	0	0	40
<b>Total</b>	<b>336</b>	<b>250</b>	<b>51</b>	<b>245</b>	<b>129</b>	<b>83</b>	<b>140</b>	<b>70</b>	<b>43</b>	<b>310</b>	<b>0</b>	<b>8</b>	<b>36</b>	<b>0</b>	<b>1701</b>



## Table 2 – Proposed Treatment Summaries

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

**Compartment 262**  
**Total Compartment Acres: 1701**

### Acres by Treatment Type

Commercial Harvest - 323	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 2	Tree Seeding - 0	Pesticide - 0	

### Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
<b>Aspen</b>	195	0	0	0	0	0	0	195
<b>Jack Pine</b>	68	0	0	0	0	0	0	68
<b>Mixed Upland Deciduous</b>	26	0	0	0	0	0	0	26
<b>Upland Conifers</b>	30	0	0	0	0	0	0	30
<b>Upland Mixed Forest</b>	5	0	0	0	0	0	0	5
<b>Total</b>	<b>323</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>323</b>



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
3	32262003-Cut	8.4	429 - Mixed Upland Conifers	High Density Log	65	141-170	Harvest	Clearcut with Reserves	4136 - Aspen, Mixed Conifer	Cmpt. Review Proposal
<u>Prescription</u> --Ben Travis : 08/23/2012 comments: A decision was made at the pre-review to leave some tamarack by excluding it with the boundary line										
<u>Specs:</u> placement.										
Harvest all tamarack, spruce, maple, fir, jack pine and aspen. Leave white pine and red pine. Retain any oak, cedar and hemlock if present. Keep boundary line on top of slope, which extends along the south edge of stand. Incorporate retention patches into boundary line work by excluding at least 3% of the stand.										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u> Follow-up treatment with a regeneration survey as outlined in the "Work Instruction 2.1 Reforestation". Pine, aspen, oak, spruce, red maple and fir are acceptable regeneration.										
<u>Proposed</u> <u>Start Date:</u> 10/01/2013										
6	32262006-Cut	28.6	42220 - Natural Jack Pine	High Density Log	62	111-140	Harvest	Clearcut	42120 - Planted Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> Harvest all jack pine, red maple and aspen. Leave red pine, white pine and white birch unless residual stocking would hinder planting operations.										
<u>Specs:</u> Retain any oak, hemlock or cedar if present. Leave some scattered spruce along Charlie Lakes Road. Retention will not meet the 3% threshold.										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u> Once harvest activities have created areas needing regeneration, a forest treatment proposal for cultural work (including herbicide application) to provide for jack pine site prep and/or regeneration methods (including planting) will be developed. Jack pine will be the preferred regeneration, but aspen, oak, red pine and white pine will be considered acceptable. After cultural work is completed, a regeneration survey(s) will be conducted as outlined in the "Work Instruction 2.1 Reforestation".										
<u>Proposed</u> <u>Start Date:</u> 10/01/2013										
7	32262007-Cut	4.6	4319 - Mixed Upland Forest	High Density Pole	72	141-170	Harvest	Clearcut	4319 - Mixed Upland Forest	Cmpt. Review Proposal
<u>Prescription</u> Harvest all aspen, jack pine, maple and fir. Remove most white birch and spruce, though leaving some scattered around site. Leave all white										
<u>Specs:</u> pine and red pine. Leave any oak or hemlock if found. Retention will probably not meet the 3% threshold.										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u> Follow-up treatment with a regeneration survey as outlined in the "Work Instruction 2.1 Reforestation". Aspen, pine, fir, spruce, white birch and maple are acceptable regeneration.										
<u>Proposed</u> <u>Start Date:</u> 10/01/2013										
12	32262012-Cut	3.2	42220 - Natural Jack Pine	High Density Log	54		Harvest	Clearcut	42221 - Natural Jack Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> Harvest all jack pine, white birch, aspen, spruce, fir and maple. Retain red pine and white pine. Leave any oak, hemlock or cedar if present. No										
<u>Specs:</u> chipping will be allowed in order to maintain good jack pine seed across site.										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u> Dozer/skidder pulling anchor chains may be used for scarification after sale is cut. Follow-up treatment with regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Pine, aspen, maple, white birch, fir and spruce are acceptable regeneration.										
<u>Proposed</u> <u>Start Date:</u> 10/01/2013										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
15	32262015-Cut	21.5	429 - Mixed Upland Conifers	High Density Log	68	141-170	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<u>Prescription</u> Harvest all aspen, jack pine, fir, spruce, maple and white birch. Leave several retention patches. Retain all white pine. May remove up to 50% of red pine. Leave any oak, hemlock or cedar if found.										
<u>Specs:</u>										
<u>Other</u> <u>Comments:</u> Large portion of stand is within potential old-growth designation for Bryan Creek. Fish Division will most likely want 300 foot set-back from Bryan Creek.										
<u>Next</u> <u>Steps:</u> Follow-up treatment with a regenerations survey as provided for in "Work Instruction 2.1 Reforestation". Aspen, fir, spruce, pine, maple and white birch are acceptable regeneration.										
<u>Proposed</u> <u>Start Date:</u> 10/01/2013										
19	32262019-Cut	2.3	42220 - Natural Jack Pine	High Density Log	72	141-170	Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> Harvest all jack pine, fir, white birch, aspen and maple. Leave some scattered spruce. Retain any white pine, red pine, oak, cedar or hemlock.										
<u>Specs:</u> Provide for sale boundary set-back along Bryan Creek. No chipping will be allowed in order to maintain jack pine seed on site.										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u> Dozer/skidder pulling anchor chains may be used for scarification after sale is cut. Follow-up treatment with regeneration survey as provided for in "Work Instruction 2.1 Reforestation". Jack pine is the preferred regeneration, but aspen, maple, fir, white birch, red pine, white pine and spruce are acceptable regeneration.										
<u>Proposed</u> <u>Start Date:</u> 10/01/2013										
20	32262020-Cut	3.6	42221 - Natural Jack Pine, Mixed Deciduous	High Density Log	62	81-110	Harvest	Clearcut	42221 - Natural Jack Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> Harvest all jack pine, aspen, fir, white birch, spruce and maple. May remove up to 1/2 of red pine. Leave white pine. Retain oak, cedar and hemlock if present. Retention probably won't meet the 3% threshold. No chipping will be allowed in order to maintain good jack pine seed across stand.										
<u>Specs:</u>										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u> Dozer/skidder pulling anchor chains may be used for scarification after sale is cut. Follow-up treatment with a regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Pine, aspen, fir, white birch, spruce and maple are acceptable regeneration.										
<u>Proposed</u> <u>Start Date:</u> 10/01/2013										
25	32262025-Cut	26.0	4191 - Mixed Upland Deciduous with Conifer	High Density Log	62	111-140	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<u>Prescription</u> --Ben Travis : 08/23/2012 comments: A decision was made at pre-review to incorporate large aspen (prefer bigtooth) and white spruce into the exclusion patches.										
<u>Specs:</u>										
Harvest all aspen, white birch, tamarack, jack pine, maple, fir and spruce. Leave all white pine. May remove up to 50% of red pine. Leave any oak, cedar or hemlock if present. Use area retention to meet retention standards.										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u> Follow-up treatment with a regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Aspen, pine, maple, fir, spruce and white birch are acceptable regeneration.										
<u>Proposed</u> <u>Start Date:</u> 10/01/2013										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
26	32262026-Cut	24.5	4132 - Aspen, Jack Pine	High Density Log	62	111-140	Harvest	Clearcut with Reserves	4132 - Aspen, Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> --Ben Travis : 08/23/2012 comments: It was decided at pre-review to incorporate large aspen (prefer bigtooth) and white spruce into retention patches.										
<u>Specs:</u>										
Harvest all aspen, jack pine, fir, spruce, maple and white birch. Leave white pine. May remove up to 50% of red pine. Leave any oak, hemlock or cedar if present. Employ patch exclusion to meet retention standards . Small embedded bog near Charlie Lakes Rd will be included in a retention patch.										
<u>Other Comments:</u>										
<u>Next Steps:</u> Follow-up treatment with a regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Aspen, pine, fir, spruce, maple, oak and white birch are acceptable regeneration.										
<u>Proposed Start Date:</u> 10/01/2013										
30	32262030-Cut	11.1	42221 - Natural Jack Pine, Mixed Deciduous	High Density Pole	57	51-80	Harvest	Clearcut with Reserves	42221 - Natural Jack Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> Harvest jack pine, red maple, white birch, fir, spruce and aspen. Retain white pine, oak and hemlock if present. May remove up to 50% of red pine.										
<u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u> Upon completion of harvest, develop a Forest Treatment Proposal to regenerate the site to jack pine. Follow-up treatment with regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Jack pine is the preferred regeneration. Acceptable regeneration includes aspen, maple, fir, spruce, red pine, white pine and white birch.										
<u>Proposed Start Date:</u> 10/01/2013										
32	32262032-Cut	7.2	4130 - Aspen	High Density Pole	82		Harvest	Clearcut	4130 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Harvest all trees except hemlock, oak, cedar, white pine and red pine.										
<u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u> Follow-up harvest with regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Acceptable regeneration is aspen, fir, spruce, maple, white birch and pine.										
<u>Proposed Start Date:</u> 10/01/2013										
39	32262039-Cut	19.4	4134 - Aspen, Spruce/Fir	High Density Log	84		Harvest	Clearcut	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<u>Prescription</u> Harvest all species except for hemlock, oak, cedar, white pine and red pine.										
<u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u> Follow-up harvest with a regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Acceptable regeneration is aspen, fir, spruce, white birch and pine.										
<u>Proposed Start Date:</u> 10/01/2013										



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
44	32262044-Cut	78.5	4130 - Aspen	High Density Pole	45	111-140	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> --Ben Travis : 08/23/2012 comments: A decision was made at pre-review to incorporate windfirm white spruce and large aspen (prefer bigtooth) into retention patches.</p> <p>Harvest all aspen, jack pine, fir, spruce, maple and white birch. May remove up to 50% of red pine. Leave all white pine. Leave oak, hemlock and cedar if present. Use area exclusion method to provide for appropriate retention.</p> <p><u>Other Comments:</u> Hunter Walking Trail passes through stand. Leave some mature trees around the wildlife opening (stand 52). The Hunter Walking Trail will be graded by the logger once harvest operations end to prepare for re-establishment of herbaceous cover. A small portion of stand is coded as potential old-growth. Recommended removal of this designation around Kate's Lake, and following Fish Division recommendations for an SCA along the Bryan Creek corridor.</p> <p><u>Next Steps:</u> Follow-up treatment with regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Aspen, fir, spruce, pine, maple and white birch are acceptable regeneration. A Forest Treatment Proposal will be developed to re-establish and maintain the herbaceous cover of the Hunter Walking Trail.</p> <p><u>Proposed Start Date:</u> 10/01/2013</p>										
45	32262045-Cut	39.9	4130 - Aspen	High Density Log	50	81-110	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Harvest aspen, jack pine, maple, fir, spruce and white birch. May remove up to 50% of red pine. Leave all white pine. Leave any oak, hemlock and cedar if present. Use area exclusion to achieve retention standards.</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> Follow-up with regeneration survey as outlined in the "Work Instruction 2.1 Reforestation". Aspen, pine, maple, fir, spruce and white birch are acceptable regeneration.</p> <p><u>Proposed Start Date:</u> 10/01/2013</p>										
50	32262050-Cut	15.1	4134 - Aspen, Spruce/Fir	High Density Log	71	81-110	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Leave some scattered white birch and white spruce by Charlie Lakes Road. Remove aspen, white birch, jack pine, fir, spruce and maple. May remove up to 50% of red pine. Leave white pine and oak. Retain any cedar or hemlock if present. Use patch exclusion to achieve retention standards.</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> Follow-up treatment with a regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Aspen, pine, maple, fir, spruce and white birch are acceptable regeneration.</p> <p><u>Proposed Start Date:</u> 10/01/2013</p>										
54	32262054-Cut	10.1	4130 - Aspen	High Density Pole	52	81-110	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> --Ben Travis : 08/23/2012 comments: A decision was made at pre-review to incorporate windfirm white spruce and large aspen (prefer bigtooth) into retention patches. Retention should be closer to the high end of the range.</p> <p>Harvest aspen, white birch, spruce, fir, maple and jack pine. Leave some scattered mature trees along forest road. Leave white pine and oak. Retain any cedar or hemlock if present. May remove up to 50% of red pine. Retention will be achieved by patch exclusion.</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> Follow-up treatment with regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Aspen, pine, oak, maple, fir, spruce and white birch are acceptable regeneration.</p> <p><u>Proposed Start Date:</u> 10/01/2013</p>										

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
64 32262064-Cut	18.9	42220 - Natural Jack Pine	High Density Pole	55	81-110	Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal

Prescription Remove jack pine, aspen, maple, fir, spruce and white birch. Exclude some patches of spruce. Leave red pine, white pine and cherry. Chipping  
Specs: will only be allowed down to a two-inch top to maintain a good jack pine seed source across site.

Other  
Comments:

Next Upon completion of harvest, develop a Forest Treatment Proposal to regenerate the site to jack pine. Follow-up the cultural treatment with  
Steps: regeneration surveys as provided for in "Work Instruction 2.1 Reforestation". Jack pine is the preferred regeneration. Aspen, fir, spruce, maple, red pine and white pine are acceptable regeneration.

Proposed  
Start Date: 07/30/2012

21 NF_32262021- NonFor	0.5	3105 - Mixed Upland Herbaceous				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
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Prescription If funds or personnel are available, this opening will be scheduled for maintenance. Maintenance may include wildlife plantings (rye or other  
Specs: suitable wildlife mix), shrub or tree plantings, yearly maintenance as required, brush removal, and/or other maintenance practices that will benefit wildlife as required.

Other Possible location for a cooperative project with hunters or sportsmen groups.  
Comments:

Next  
Steps:

Proposed  
Start Date: Unspecified

52 NF_32262052- NonFor	1.6	3105 - Mixed Upland Herbaceous				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
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Prescription If funds or personnel are available, this opening will be scheduled for maintenance. Maintenance may include wildlife plantings (rye or other  
Specs: suitable wildlife mix), shrub or tree plantings, yearly maintenance as required, brush removal, and/or other maintenance practices that will benefit wildlife as required.

Other Possible location for a cooperative project with hunters or sportsmen groups.  
Comments:

Next  
Steps:

Proposed  
Start Date: Unspecified

**Total Treatment  
Acreage Proposed: 325.2**

**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



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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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Prescription  
Specs:

Other  
Comments:

Next  
Steps:

Proposed  
Start Date: #Error

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**Total Treatment  
Acreage Proposed: 0**



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	High Density Sapling	18.7	15		Stand was harvested in Feb/March of 1997, permit #009-94. Very infrequent red oak saplings.
2	4311 - Pine, Aspen Mix	High Density Sapling	1.2	2		White pine saplings present. Residual white pine and red pine poles left after harvest. Many jack pine snags standing.
3	429 - Mixed Upland Conifers	High Density Log	8.4	65	141-170	Treatment was delayed last entry for age/size class diversity. Many aspen, spruce and jack pine snags. All species are overmature. Distinct patches of aspen within jack pine. Quite high bank above the floodplain. White pine, red pine and white birch are infrequent overstory associates. White pine saplings encountered.
5	6124 - Lowland Spruce-Fir	Low Density Pole	16.0	86		Floodplain along Bryan Creek.
6	42220 - Natural Jack Pine	High Density Log	28.6	62	111-140	Harvest was delayed last entry for age/size class diversity. Many jack pine crowns are sparse. Numerous jack pine snags and deadfall. Aspen poles are poor quality. Uncommon white pine saplings. Black spruce and tamarack are infrequent overstory associates.
7	4319 - Mixed Upland Forest	High Density Pole	4.6	72	141-170	Treatment was delayed last entry for age/size class diversity. Fir and aspen overmature. Aspen snags. White pine uncommon in overstory. White birch saplings present.
8	429 - Mixed Upland Conifers	Low Density Sapling	26.1	7		Stand harvested in 2005 under permit #119-04. FTP C32-637 describes cultural work for regeneration. Natural volunteer jack pine seedlings are 2 to 3 feet tall. White pine and red pine saplings on site. Residual white pine, red pine and black spruce poles. The trenched/seeded jack pine are around 6 inches tall.
9	4130 - Aspen	High Density Sapling	41.7	7		Stand was harvested during May to July of 2005 under permit #32-05. Good stocking levels. More residual red pine to south. Sparse white pine sawtimber.
10	4130 - Aspen	High Density Pole	16.2	36	81-110	Sporadic white pine and red pine poletimber. Red oak and white birch saplings present.
11	42220 - Natural Jack Pine	High Density Log	7.6	68	111-140	Riparian zone along Bryan creek. jack pine range from 10 to 16 inches Dbh. Jack pine snags. 5 stick trees.
12	42220 - Natural Jack Pine	High Density Log	3.2	54		Jack pine snags present. White spruce is infrequent overstory associate.
13	4134 - Aspen, Spruce/Fir	High Density Pole	49.1	38	81-110	Stand was harvested in 1974. White birch, tamarack and white pine are infrequent overstory associates. White birch saplings found.
14	42110 - Planted Red Pine	High Density Sapling	10.2	14		Red pine range from 16 to 18 feet tall. Red pine live branches extend to the ground. Nice form to red pine boles. Good stocking. Scarce white pine and red oak poletimber found. Cherry and red maple saplings present.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	429 - Mixed Upland Conifers	High Density Log	21.5	68	141-170	Hunter walking trail passes through east side of stand. Aspen diameters range from 12 to 18 inches Dbh. jack pine deteriorating. Jack pine snags and deadfall present. Fir snags. Some 6 stick jack pine and black spruce. Scarce white pine in overstory.
16	4130 - Aspen	High Density Pole	78.9	36	1-50	Approximately 40% of aspen in overstory are still at the sapling stage. Bigtooth aspen more vigorous than trembling. White pine is overstory associate. Red oak and red pine saplings found.
17	42120 - Planted Jack Pine	High Density Sapling	41.8	14		Stand originated from cultural work described in FTP C31-366 and associated completion report. Jack pine is approximately 14 to 18 feet tall. Excellent stocking levels and jack pine health. Scarce red pine poles/sawtimber, white pine sawtimber, red oak sawtimber, aspen saplings, red maple poletimber, fir poletimber, black spruce poletimber and red pine saplings.
18	42210 - Natural Red Pine	High Density Log	7.6	112	141-170	Red pine stand was released in the 1950s. Red pine, white birch and white pine saplings present. Stand is adjacent to bog.
19	42220 - Natural Jack Pine	High Density Log	2.3	72	141-170	Treatment was delayed last entry period for size class/age diversity. Stand is adjacent to Bryan creek. Will need to provide buffer for creek.
20	42221 - Natural Jack Pine, Mixed Deciduous	High Density Log	3.6	62	81-110	Some jack pine crowns becoming sparse. frequent jack pine snags.
22	4130 - Aspen	High Density Sapling	23.0	7		Harvested in May/June of 2005, permit number 32-005-01. Good stocking levels.
25	4191 - Mixed Upland Deciduous with Conifer	High Density Log	26.0	62	111-140	Stand was held last entry for age/size class diversity. Conks are found on many of the aspen boles. Aspen snags present. Aspen is in decline. Spruce crowns are sparse. Higher stocking of spruce to south. White pine and tamarack poles present.
26	4132 - Aspen, Jack Pine	High Density Log	24.5	62	111-140	Treatment was delayed last entry period for age/size class diversity. Jack pine have sparse foliage. High incidence of aspen and jack pine snags/deadfalls. Aspen diameters range up to 16 inch Dbh. High hill. Steep, long slopes down to swamp to south. Some black spruce poles, white pine poles, and white pine saplings.
27	4130 - Aspen	High Density Sapling	51.4	26	1-50	Variable stocking levels. Aspen range from 3 to 7 inches Dbh. Occasional white spruce and white birch poles. Red oak, white birch, red pine and white pine saplings found.
30	42221 - Natural Jack Pine, Mixed Deciduous	High Density Pole	11.1	57	51-80	Stand was not treated last entry due to age/size class diversity considerations. Jack pine and aspen snags.
32	4130 - Aspen	High Density Pole	7.2	82		Stand was prescribed for sale preparation in 2011 at the 2012 Compartment Review. Sale prep completed and sale will be advertised.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
33	42330 - Upland Fir	Low Density Pole	10.1	72	81-110	Some lowland areas. Stand within riparian zone of Bryan Creek.
34	4134 - Aspen, Spruce/Fir	High Density Sapling	102.2	15		East portion of stand harvested in 1995 under permit #18-94. West portion was harvested in 2000 under permit #22-98. White pine and balsam poplar saplings present.
35	4130 - Aspen	High Density Sapling	11.9	5		Stand harvested in 2007 under permit #318-05-01. Aspen is approximately 10 feet tall. Few jack pine and white pine seedlings noted. Occasional red pine and black spruce poles.
36	4130 - Aspen	Medium Density	32.4	5		Stand harvested in 2007 under permit #318-05. 20 acres of site were trenched and seeded to jack pine in 2008. Regeneration check showed 100 jack pine/acre and 814 all tree species seedlings/acre. Aspen range from 6 to 8 feet tall. Many jack pine snags. Residual red pine and white pine poles and sawtimber. White pine saplings found.
37	4130 - Aspen	High Density Pole	54.3	36	51-80	Many submerchantable-sized aspen stems. Stocking adequate. White pine, white birch, red oak, black cherry and black spruce saplings present. White pine, white spruce, red pine, red oak and white birch are infrequent overstory associates.
38	4136 - Aspen, Mixed Conifer	High Density Pole	42.6	40	81-110	White birch, red maple, white spruce and white pine poles present. White pine and red pine saplings found. Aspen have 2 sticks.
39	4134 - Aspen, Spruce/Fir	High Density Log	19.4	84		Stand was added to the 2011 Plan of Work at the 2012 Compartment Review. Stand has been prepared for sale and will be advertised.
40	6139 - Mixed Lowland Forest	High Density Log	18.3	72	111-140	Portions of stand are upland. Red pine, cedar and white pine are infrequent overstory associates. Stand surrounds small pond.
41	4130 - Aspen	High Density Sapling	14.1	36		Some small patches of aspen poles. Aspen stocking adequate for timber management. scattered red pine and white pine in overstory. White birch saplings present.
44	4130 - Aspen	High Density Pole	78.5	45	111-140	Stand was non-commercially cut in 1964 with dozer/KG blade. Hunter walking trail within stand. Aspen healthy. Red pine and white pine are uncommon overstory associates. Black cherry is found in overstory. Red maple found in understory. Spruce bud worm infestation detected in July 2012. Understory fir are being severely defoliated.
45	4130 - Aspen	High Density Log	39.9	50	81-110	Red maple is minor overstory associate. Jack pine is in decline. Jack pine, aspen and white birch snags.
46	4123 - Red Oak	High Density Log	9.2	94	81-110	Stand harvested in June/July of 1995 under permit #11-94. All oak was retained. Illegal box blind in stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
47	4130 - Aspen	High Density Pole	8.4	48	1-50	Aspen not real vigorous. Many aspen saplings in each plot. Clones of older/larger aspen with avg. Dbh of 10 to 12 inches. White pine and red pine poles present. Red pine and oak saplings found.
49	4131 - Aspen, Oak	High Density Sapling	17.7	17		Stand was harvested in in 1995 under permit #11-94. Aspen are approximately 24 feet tall. High species diversity of trees. Scattered red oak sawtimber. White birch and bigtooth aspen are infrequent overstory associates. Jack pine, white birch and white pine saplings found. Some hazel. Some small patches red oak poles and sawtimber.
50	4134 - Aspen, Spruce/Fir	High Density Log	15.1	71	81-110	Treatment was delayed last entry for age/size class diversity. Aspen overmature. Red pine, white pine and red oak are uncommon in the overstory. White birch, white pine, red pine and oak saplings present.
53	42340 - Upland Spruce/Fir	High Density Log	4.4	72		Buffer around Kate's Lake.
54	4130 - Aspen	High Density Pole	10.1	52	81-110	Aspen ranges from 9 to 16 inches Dbh. Fair number of aspen and fir snags. Jack pine crowns becoming sparse. Aspen is tall with nice form. Red pine is infrequent overstory associate. Black cherry, white spruce and white pine saplings present.
55	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	300.5	94	81-110	Steep bank along edges of this stand. Some open areas with more alder. Occasional red maple, white pine, red pine, white spruce, balsam poplar and fir in overstory. White birch and tamarack saplings present.
57	4130 - Aspen	High Density Pole	18.8	36	81-110	Stand harvested in 1975.
58	4130 - Aspen	High Density Pole	14.0	36	51-80	Stand harvested in 1975. Aspen composed of roughly 50% saplings and 50% poles. White birch saplings present.
59	4136 - Aspen, Mixed Conifer	High Density Sapling	46.3	4		Stand harvested in 2008 under permit #307-06. Overall, aspen stocking good. Patches of heavier oak regeneration. Red pine, jack pine and white spruce saplings found.
60	4130 - Aspen	High Density Sapling	59.1	15		Stand harvested between 1995 and 1997 under permit #11-94. Aspen are approximately 24 feet tall.
61	42320 - Upland Spruce	High Density Pole	14.9	78		Conifer crowns healthy. White birch is overstory associate.
62	4113 - R.Maple, Conifer	Medium Density Pole	15.8	60	81-110	A timber trespass occurred about 10 years ago and was resolved at that time. Nearly all the large diameter white pine were removed. Stand was effectively thinned and canopy is very open overall. Many old skid trails still evident. Pockets of M3 and F3. Infrequent small groups of mature aspen. Many open areas with fir, maple and white pine saplings. DNR survey monument at SE corner of private 40, west of this stand.

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Gwinn Mgt. Unit

## 5 – Forested Stands

Compartment: 262

Year of Entry: 2014



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
<b>63</b>	42360 - Upland Cedar	High Density Log	36.4	120	171-200	Good to excellent form class to cedar boles. Cedar crowns are healthy. Bryan creek flows through stand.
<b>64</b>	42220 - Natural Jack Pine	High Density Pole	18.9	55	81-110	Fair amount of jack pine deadfall and snags. Foliage on jack pine becoming quite sparse. This stand was prescribed for a clearcut with reserves, after obtaining permission following out-of-entry year guidelines. It has been prepared for sale and advertised with stands being treated in Cmpt 261 to the east.
<b>65</b>	42320 - Upland Spruce	High Density Pole	3.6	61	111-140	Healthy spruce crowns. Many submerchantable spruce stems. Occasional trembling aspen poles.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
4	6224 - Treed Bog	1.1	No	Unspecified	Black spruce and tamarack saplings in bog. Buffer around bog comprised of black spruce, trembling aspen and jack pine poles. White birch and fir saplings present.
21	3105 - Mixed Upland Herbaceous	0.5	Yes	High (NonForested)	Excellent quality forage. Opening is part of hunter walking trail.
23	3201 - Sweet Fern	26.1	No	Unspecified	Stand is composed mainly of old ELF line segments. White spruce, trembling aspen, jack pine and balsam fir saplings encroaching. Also red pine, trembling aspen and jack pine poles present.
24	6225 - Bog	5.1	No	Unspecified	Leatherleaf.
28	6224 - Treed Bog	1.2	No	Unspecified	Fringe of black spruce, aspen and jack pine along margin of stand.
29	6224 - Treed Bog	1.9	No	Unspecified	16 to 20 foot tall black spruce. Spruce is spindly with very sparse cowns.
31	3201 - Sweet Fern	1.1	No	Unspecified	Stand roughly 90% open. Some jack pine poles and saplings filling in.
42	50 - Water	6.5	No	Unspecified	
43	6220 - Alder/willow	72.4	No	Unspecified	Floodplain along Bryan Creek. Fir, spruce, tamarack and aspen saplings present. Fir, spruce and tamarack poles found.
48	6225 - Bog	2.0	No	Unspecified	Leatherleaf, black spruce saplings and tamarack saplings.
51	3302 - Low Density Conifer Trees	1.0	No	Unspecified	Opening filling in. White spruce poletimber and saplings are predominant trees. Jack pine poles, jack pine saplings and red pine saplings present. Poor herbaceous forage and areas of bracken.
52	3105 - Mixed Upland Herbaceous	1.6	Yes	Medium (NonForested)	Excellent quality forage. Opening is part of hunter walking trail.
56	50 - Water	33.1	No	Unspecified	Kate's 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.

<b>Stand</b>	<b>SCA Type</b>	<b>SCA Name</b>	<b>Acres</b>	<b>Comments</b>
multiple - see	Unique Site - SCA	32262_SCA	51.6	RAU added SCA
multiple - see	SCA Removal	32262_SCA_Removal	368.1	RAU added SCA



**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	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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.